SERVICE MANUAL



LW/MW/FM STEREO DOUBLE CASSETTE RECEIVER

TAC-M82

(EUROPE/SPAIN)



SPECIFICATIONS

Amplifier Section Minimum RMS sine wave power per channel at 6 ohms within rated bandwidth at no more than rated THD Power Bandwidth Total Harmonic Distortion	Hz - 2	0 kHz
FM Tuner Section Usable Sensitivity (Mono)		65 dB
MW Tuner Section Usable SensitivitySignal-to-Noise Ratio		

LW Tuner Section Usable Sensitivity Signal-to-Noise Ratio	
Cassette Section Frequency Response Wow and Flutter (WRMS) Channel Separation	0.15 %
General Power Requirements	190 Watts 335 x 245 x 300 mm

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- Specifications and design are subject to change without notice. -

CAUTION ON RF ADJUSTMENT

This model uses a microprocessor for memory preset control for the various bands.

This function has been used to preset frequency points for the different bands to permit adjustment and make it possible to check the function of the microprocessor. To use this supplemental function, ground initialize test point TP7 for 1 second before beginning adjustment. The following table shows the initially preset frequencies.

Band		Memory				
Dalia	1	2	3	4	5	6
FM-1	87.5MHz	108MHz	88MHz	98MHz	108MHz	90MHz
MW/LW	603kHz	1404kHz	999kHz	160kHz	350kHz	250kHz

FM TUNER ALIGNMENT

FM ALIGNMENT - FUNCTION switch to FM/STEREO position. Note: It is almost unnecessary to adjust coil in Front End as perfectly adjusted

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	ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE			
1.	FM IF S-CURVE ALIGNMENT	Connect 10.7MHz Radio IF Generator output to TP1 and ground lead to chassis. Use 5pF capacitor in series with generator output lead.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP5 and ground lead to chassis.	Adjust FM DET 1st Coil (T106) and FM DET 2nd Coil (T107) so that S-wave form becomes symmetrical.			
2.	DETECTOR ADJUSTMENT (MINIMUM T.H.D.)	Connect FM RF signal generator through FM Dummy Antenna to FM Antenna terminals.	Set Preset STATION button to "4" position. Set to 98MHz.	Connect DC Volt- meter across TP3 and TP4.	Adjust FM DET 1st Coil (T106) until DC Voltmeter reads 0V ±50mV.			
		Set generator output level to 60dBµV at 98MHz±2kHz.	Set MODE switch to MONO.	Harmonic Distortion Analyzer to SPEAKER OUT.	Adjust FM DET 2nd Coil (T107) for minimum gain and best linearity.			
No	te: Repeat Step 1	(FM DET 1st Coil T106) and	2 (FM DET 2nd Coil	T107) until optimum a	alignment is reached.			
3.	FM MUTING LEVEL ADJUSTMENT	Same as above. Adjust attenuator output level for 18dB _µ V.	Same as above.	Front panel TUNED Display Indicator.	Set MODE Switch to STEREO. Adjust P101 until the TUNED Indicator partly light up.			
No	te: Decrease the confirm that the	output level of ATT and con- ne input level meets the spe	firm that the wave for cifications sufficientl	rm disappears. Increa y when the wave forn	ase the output level of ATT again and n has appeared.			
4.	FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. 19kHz signal ON. Main channel, sub channel signal ON. Apply 1000Hz signal from LEFT channel.		Connect AC VTVM and Oscilloscope to SPEAKER OUT.	Adjust P103 for minimum output.			
		Same as above for RIGHT channel.		Connect AC VTVM and Oscilloscope to SPEAKER OUT.				

Use a screwdriver with plastic grip for all adjustments.

MW/LW Frequency Cover Range Tuning Voltage Value at TP2

(Table 1)

				(
	153kHz	360kHz	522kHz	1611kHz
Minimum	0.7V	6.0V	1.0V	7.0V
Typical	0.93V	6.7V	1.3V	8.03V
Maximum	1.2V	8.0V	1.4V	9.0V

AM TUNER ALIGNMENT

AM ALIGNMENT — FUNCTION switch to MW or LW position.

Maintain generator output as low as possible for suitable indication.

Note: Perform this alignment after FM Tuner Alignment.

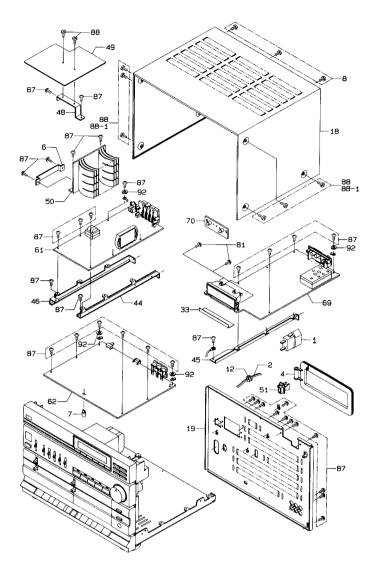
	Note: Perform this alignment after FM Tuner Alignment.							
<u> </u>	ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE			
1.	AM IF ALIGNMENT	Connect 450kHz Radio IF Genescope output to Pin W1 and W2 Adjust output level to 70dBµV.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP6 and ground lead to chassis.	Adjust AM IFT (T105) for maximum gain and best symmetry. Keep signal low enough for noise on response.			
2.	MW RF FREQUENCY COVER ALIGNMENT (1611kHz)	Do not connect generator.	Front Panel DIGITAL Counter Display Set to 1611kHz.	Connect DC Volt- meter to TP2 and ground lead to chassis.	Check DC Voltmeter for Indication 7.0V ~ 9.0V.			
3.	(522kHz)	Same as above.	DIGITAL Counter Display Set to 522kHz.	Same as above.	Check DC Voltmeter for Indication 1.0V ~ 1.4V.			
No	te: Repeat the ac of 522kHz to 1	djustments in items 2 and 3. I611kHz. (See Table 1)	Then, confirm that e	ach voltage becomes	1.3V to 8.03V at receiving frequency			
4.	LW RF FREQUENCY COVER ALIGNMENT (360kHz)	Do not connect generator.	Front Panel DIGITAL Counter Display Set to 360kHz.	Connect DC Volt- meter to TP2 and ground lead to chassis.	Check DC Voltmeter for Indication 6.0V ~ 8.0V.			
5.	(153kHz)	Same as above.	DIGITAL Counter Display Set to 153kHz.	Same as above.	Check DC Voltmeter for Indication 0.7V ∼ 1.2V.			
No	te: Repeat the ac of 153kHz to 3	djustments in Items 4 and 5. 360kHz. (See Table 1)	Then, confirm that e	ach voltage becames	0.93V to 6.7V at receiving frequency			
6.	MW RF TRACKING ALIGNMENT (603kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop antenna (Unit).	Set Preset STATION button to "1" position. Set to 603kHz.	Connect AC VTVM and Oscilloscope to SPEAKER OUT.	Adjust MW ANT Coil (T101) for maximum gain output.			
7.	(1404kHz)	Generator Setting to 603kHz or 1404kHz. Modulate with 400Hz (30 % modulation).	Change Preset STATION button to "2" position. Set to 1404kHz.	Same as above.	Adjust MW ANT Trimmer (TC101) for maximum gain output.			
No	te: Repeat the ad	justments in Items 6 and 7.	Then, confirm there i	s no tracking error.				
	LW RF TRACKING ALIGNMENT (160kHz)	Change generator setting to 160kHz.	Set Preset STATION button to "4" position. Set to 160kHz.	Connect AC VTVM and Oscilloscope to TUNER OUT.	Adjust LW ANT Coil (T102) for maximum gain output.			
9.	(350kHz)	Change generator setting to 350kHz.	Change Preset STATION button to "5" position. Set to 350kHz.	Same as above.	Adjust LW ANT Trimmer (TC102) for maximum gain output.			
Not	e: Repeat the ad	justments in Items 8 and 9.	Then, confirm there i	s no tracking error.				
	AM AUTO STOP SENSITIVITY ADJUSTMENT	Change generator setting to 999kHz and output level to 60dBµV/m.	Set Preset STATION button to "3" position. Set to 999kHz.	Front Panel TUNED Indicator Display.	Adjust P102 until the Indicator partly light up.			

Use a screwdriver with plastic grip for all adjustments.

CABINET & CHASSIS PARTS LIST / EXPLODED VIEW

No.	Part No.	Description	Q'ty				
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	620 057 8370	Bag Polyethylene-Exp.	1	47—7	[™] → 53 → 90	Name of the Control o	
	620 059 7333	Patching Sheet	1	< -	<u>√</u> \$7 ¹ €34	A Company	
	620 062 0543	Serial No. Sheet	2	\rightarrow	31-		
	620 187 8233	Box Corrugate-Exp. (Black)	1		27 29		-8!
	620 191 5877	Box Corrugate-Exp. (White)	i	36{	91 30		"
	620 187 0381	Pad Front	1	24		26	~ (May)
	620 187 0398	Pad Rear	1		2B 30	25—	>000
	620 148 5691	Poly Cover 100 x 250	1		230 27		
	020 140 000 1	1 oly oover 100 x 250	Į.	6 2 0	32	90	
ICC	ESSORIES			42-6	<u></u>	35—54	
	620 189 2314	REM-M82EU (Remote Control)	1	68€	₩0	87	
	620 017 4459	Connector 4P Assy	1	`	39— /3	./	S S Tuy
	411 123 3906	SCR TPG BIN 3X10	2	87-		21-3	**************************************
	620 038 1673	FM Antenna Assy	1	~			41
	620 057 8783	Bag Fan	1	4		₩ HEZ	
	620 062 0543	Serial No. Sheet	1		lána	N −87 1 N →	—87
	620 113 5312	Stand Loop Antenna	1	23—(3) 74	63	40-82	
or	620 113 5305	Stand Antenna	1		**************************************		
	620 148 4571	Poly Cover	1	© —Я	, "≫l" ∈ 7	i9— (3)	
	620 152 2624	Certificate Card	i	ii -	-81	87	
	620 189 0716	Explanatory Booklet	1		1/	*	
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	620 019 9490	Connector 1P Assy	1			g87	
	620 022 3492	Terminal Lug	2	7.0			
	620 116 4725	Adhesive Sheet	1	1			87
	620 125 8424	Wire Band	26		100 m		9 /1/
	620 152 7452	Serial No. Sheet	1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Constant K		V •
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	⚠ 620 023 7550	Power Cord	4				ويحابر
	△ 620 187 4105	Power Trans	•	89-	- 15/1/20 A		501
	620 028 2741		- 1	9		83	
		AM Loop Antenna			> $ $ $>$	67	
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;	620 048 2608	Metal Mount (IC)	1	`			
	620 050 4409	Mount P.C.B.	1	14—	A		
3	620 051 1780	Screw, +M3.0X6.0	3		<u> </u>)-16	\downarrow
)	620 051 3760	Screw, Brazier Hd. Tapping-B, + M3.0)	(8 3			J. J	
0	620 051 4149	Screw, + M4.0X8.0	4			100000	
1	620 051 4293	Screw, + M3.0X16	1		Join Marie	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
2	620 053 2136	Bushing (Power Cord)	1				
3	620 186 3420	Cabinet Front Assy (Black)	1				
		Cabinet Front Assy (White)	1			15 87—3 ·	(\$ // @ _
	620 191 5457					- 19	
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44556678890112334455666778899001	620 186 3444 620 191 5464 620 191 5464 620 186 3451 620 191 5471 620 186 3475 620 191 5495 620 083 1789 620 090 5381 620 191 5587 620 186 9668 620 186 3826 620 111 1910 620 191 5709 620 112 0011 620 186 4021 620 186 4038 620 191 5716 620 186 4045 620 191 5723 620 186 4045 620 191 5730 620 186 4052 620 191 5747 620 186 4069 620 191 5761 620 188 5972 620 191 5778 620 186 4076 620 191 5778 620 186 4083 620 191 5778 620 186 4090 620 191 5778 620 186 4090 620 191 5792	Lid Cassette (Left) Assy (White) Lid Cassette (Right) Assy (Black) Lid Cassette (Right) Assy (White) Knob Volume Assy (Black) Knob Volume Assy (Black) Knob Volume Assy (White) Gear Eject Assy Cover (Black) Cover (White) Panel Rear Plate Bottom Knob Push (Dolby, Tape Select) (Black Knob Push (Dolby, Tape Select) (White Knob Push (Surround) (Black) Knob Push (Surround) (White) Knob Record (Black) Knob Record (White) Knob Dubbing (Black) Knob Dubbing (White) Knob High Speed (Black) Knob Pause (Black) Knob Pause (Black) Knob Play (Black) Knob Play (White) Knob Rewind (Black) Knob Rewind (White) Knob Rewind (White) Knob Rewind (White) Knob F (Black) Knob FF (Black) Knob FF (Black) Knob STOP/Eject Left (Black) Knob STOP/Eject Left (White)	1	No. 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	620 187 0022 620 187 0039 620 187 0039 620 187 0046 620 186 4175 620 187 0145 620 187 0152 620 187 0169 620 187 0183 620 187 0213 620 187 0213 620 188 5415 620 189 8972 620 190 6615 620 190 622 620 190 2150 620 122 2210 620 139 1916 620 139 1923 620 139 1923	Bracket Spindle (Left) Bracket Spindle (Right) Bracket Spindle (Center) Chassis (Left) Chassis (Right) Bracket (A) Bracket (B) Bracket (C) Bracket (Left) Bracket (Right) Bracket (Right) Bracket P.C.B. Power Bracket P.C.B. Tuner Bracket P.C.B. Power Left Bracket Heat Sink Plate Shield Plate Heat Sink Holder Antenna Spindle Button Spring Lid Cassette (Left) Spring Lid Cassette (Right) Power P.C.B. Assy	CXA1101P)

CABINET & CHASSIS PARTS LIST / EXPLODED VIEW (Continued)



Ref. No.	Part No.	Description	Q′ty
64	620 187 3337	Function P.C.B. Assy	1
65	620 187 3351	Headphone P.C.B. Assy (1 ~ 4,000)	1
65	620 192 4602	Headphone P.C.B. Assy (4,001 ~)	1
66	620 187 3375	Volume P.C.B. Assy	1
67	620 187 3399	LED P.C.B. Assy	1
68	620 187 3412	REM P.C.B. Assy	1
69	620 187 9193	Tuner P.C.B. Assy	1
70	620 187 3443	Switch P.C.B. Assy	1
71	620 187 3450	Lamp P.C.B. Assy	1
81	411 020 5706	SCR S-TPG BRZ 2.6X8	6
82	411 020 5904	SCR S-TPG BRZ 3X10	5
83	411 020 6208	SCR S-TPG BRZ 3X12	2
84	411 020 6703	SCR S-TPG BRZ 3X16	3
85	411 020 7205	SCR S-TPG BRZ 3X25	1
86	411 020 7304	SCR S-TPG BRZ 3X30	1
87	411 020 8004	SCR S-TPG BRZ 3X8	58
88	411 021 5903	SCR S-TPG BIN 3X6 (Black)	8
88-1	411 098 1006	SCR S-TPG BIN 3X6 (White)	6
89	411 021 6603	SCR S-TPG BIN 3X8 `	3
90	411 022 2802	SCR S-TPG FLT 3X10	5
91	411 022 3205	SCR S-TPG FLT 3X14	1
92	411 008 1300	WASHER SPR 3	4

Ref. No.	Part No.	Description	Q′ty

NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

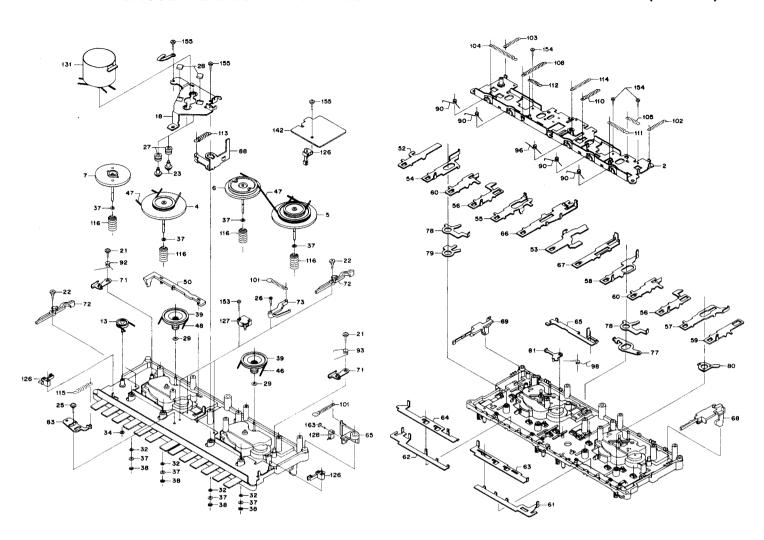
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CASSETTE DECK MECHANISM PARTS LIST / EXPLODED VIEW

Ref. No.	Part No.	Description	Q'ty	160			
MECH	IANISM			Fine Q _ 12	23	160 7 - 61/4 20 123	
	620 187 8967	Connector 2P Assy [CA1]	1	in a Ju	G√ 121 9 159	124 -121	59
	620 187 9056	Connector 3P Assy [CA2]	1	124			
	620 187 9063	Connector 6P Assy [CA3]	1	120 —∪		120-6	
	620 017 5777	Connector 1P Assy [CA4]	1	125		-151	
	620 125 8103 620 125 8424	Lug Wire Band	1	125	122	125—122	∳ −151
1	620 081 6106	Chassis Assy	1		8 576 9	6	R 5>-16
2	620 185 4534	Bracket Rod Assy	í	75-0		-82 164 -24 76	E.
3	620 082 2893	Plate Head Assy	2	•	- C	75	0-16
4	620 082 7324	Flywheel R/P Assy	1		156	129	7156 3 82
5	620 082 7348	Flywheel PB Assy	1		100-0	165	
6 7	620 082 7355	Flywheel PB Assy	1		S. Marie	14 109 -	3 165
8	620 082 7379 620 083 0607	Flywheel R/P Assy Pinchroller Assy	2		42-0	30	
9	620 083 0614	Pinchroller Assy	2	141—	36-38	42	\$\ ^ \\\ \\\\
10	620 083 2755	Friction Assy	2	161-0"	45	141 36	30
11	620 083 2816	Gear Complete	2	162 — 9 8	9 20	74	- 119
12	620 083 2830	Gear Power REV Assy	2	35 —	- 102	-51	20 45
13	620 192 5920	Pulley Drive Assy	1	40	e—162 •—35	97	74
14 15	620 084 2853 620 084 2860	Base Slide PB Assy Base Slide R/P Assy	1		41	-84	97
16	620 085 0926	Lever Change Assy	1	117		-70	bac
17	620 085 0933	Lever Change PB Assy	i	157-6	118	, T	84
18	620 119 2100	Bracket Motor	i		157	162-0	- 70
20	620 119 7532	Spacer Gear REV	2		.	31—¢ 35—¢	51-
21	620 122 7277	Screw, w/Washer, + M2.0X6.0	2	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	85 44 1	58 40 162	****
22	620 122 8397	Screw, Tapping, + M2.0X6.0	2			1 9 A 1	49-0
23 24	620 122 9356 620 123 0550	Screw Washer, + M2.6X1.5	2				300
25	620 123 0550	Screw, Pan Hd., + M1.6X6.0 Screw, + M2.0X6.5	4			9-163	₫-31
26	620 123 0826	Screw M1.4 2X5	1	200)4	7 -128 -157	40
27	620 123 9942	Cushion Motor	2	****		99	10
28	620 124 5530	Cushion	2	~		85	ob—31 ob—158
29	620 125 3818	Washer, M2.1X4.0X0.125	2	1		163-0	•
30	620 125 2071	Washer, M1.6X4.0X0.40	2	æ√ ~		128	
31 32	620 125 2163 620 125 3078	Washer, M2.1X5.0X0.13	4	9			
33	620 125 3382	Washer, M2.1X3.5X0.25 Washer, M1.25X4.0X0.25	4 2	95		M 90 87	
34	620 125 3894	Washer, M1.6X3.2X0.4	1		£		7
35	620 125 4235	Washer, M3.0X4.4X0.25	4	L.	94		
36	620 125 3849	Washer, M4.2X7.0X0.13	2			07	—9
37	620 125 4938	Washer, M2.1X4.5X0.2	8		- Armin		— 95
38	620 125 6666	E Ring TE-4	4			107	
39 40	620 126 3749 620 126 6382	Pulley Drive Fix Reel Take-up	2 2			2	
41	620 126 6399	Fix Reel Supply	2				
42	620 127 8156	Gear Head	2	D-4			
43	620 127 9283	Gear Forward Play	2	Ref.	Part No.	Description	Q'ty
44	620 127 9344	Gear Rewind Relay	2	No.			
45	620 127 9351	Gear Reverse	2	74	620 131 9453	Lever Change Auto Shut-off	2
46 47	620 128 6755	Belt Drive	1	75	620 131 9460	Lever Change REV	2
47 48	620 128 6823 620 128 6786	Belt Wind Belt Drive R/P	2	76 	620 131 9477	Lever Mode Change	2
49	620 130 7238	Plate Auto Shut-off	1 2	77 79	620 131 9538	Lever Play	1
50	620 130 7245	Plate Change Record	1	78 79	620 131 9545 620 131 9552	Lever Cue Reverse Lever Pause R/P	2 1
51	620 130 7252	Lever Sensor	2	80	620 131 9569	Lever Pause PB	1
52	620 130 7436	Rod Stop R/P	1	81	620 131 9576	Lever Stopper Record	1
53	620 130 7450	Rod Dubbing	1	82	620 131 9583	Lever Change Take-up	2
54	620 130 7474	Rod Pause R/P	1	83	620 131 9606	Lever Dubbing	1
55 56	620 130 7498 620 130 7511	Rod Play R/P Rod Rewind	1	84	620 132 5744	Lever Reverse	2
57	620 130 7511	Rod Pause PB	2 1	85	620 132 5751	Lever Arm Gear	2
58	620 130 7559	Rod Play PB	i	86 87	620 136 3852 620 136 4521	Interlock Lever	1
59	620 130 7573	Rod Stop PB	i	88	620 136 4545	Lever Reverse Record Lever R/P Switch	1 1
60	620 130 7597	Rod F FWD	2	89	620 139 1749	Spring Gear REV	2
61	620 130 7603	Plate Switch Motor PB	1	90	620 137 8979	Spring Rod	4
62	620 130 7610	Plate Switch Motor R/P	1	91	620 137 9600	Spring Lever Sensor	2
63 64	620 130 7627	Plate Lock PB	1	92	620 137 9617	Spring Pause Latch R	1
65	620 130 7634 620 185 5777	Plate Lock R/P Lever Switch PB	1	93	620 137 9624	Spring Pause Latch P	1
66	620 130 7672	Rod Record	1	94	620 137 9631	Spring Pinch Roller REV	2
67	620 130 7856	Rod Speed Switch	1	95 96	620 137 9648	Spring Pinch Roller FWD	2
68	620 130 7863	Plate Lock Lid PB	1	96 97	620 137 9655 620 137 9662	Spring Rod Play Spring Change ASO	1 2
69	620 130 7870	Play Lock Lid R/P	1	98	620 188 0519	Spring Change ASO Spring Stopper Record	1
70	620 130 7993	Plate Change	2	99	620 138 4963	Spring Cassette	2
71	620 131 8616	Lutch Pause	2	100	620 138 6769	Spring Azimuth	2
72 73	620 131 9439	Lever Auto Shut-off	2	101	620 139 1527	Spring Lever Switch R/P	2
13	620 131 9446	Lever Change Record	1	102	620 139 1701	Spring PL Lock Lid PB	1
				e _			

CASSETTE DECK MECHANISM PARTS LIST / EXPLODED VIEW (Continued)



103 620 139 1718 Spring PL Lock Lid R/P 104 620 139 1725 Spring PL Motor Switch R/P 105 620 139 1732 Spring PL Motor Switch PB 106 620 139 1756 Spring Plate Change 107 620 139 1763 Spring Rod Play 108 620 139 1770 Spring Rod Play 109 620 139 1787 Spring Base Slide R/P 110 620 139 1800 Spring Plate Lock PB 111 620 139 1817 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 PCB Head 141 620 112 0821 PCB Head 142 620 118 73344 Mecha P.C.B. Assy	Ref. No.	Part No.	Description	Q′ty
105 620 139 1732 Spring PL Motor Switch PB 106 620 139 1756 Spring Plate Change 107 620 139 1763 Spring Arm Gear 108 620 139 1770 Spring Rod Play 109 620 139 1787 Spring Base Slide R/P 110 620 139 1794 Spring Base Slide PB 111 620 139 1800 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 018 7925 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 012 0821 PCB Head	103	620 139 1718	Spring PL Lock Lid R/P	1
106 620 139 1756 Spring Plate Change 107 620 139 1763 Spring Arm Gear 108 620 139 1770 Spring Rod Play 109 620 139 1787 Spring Base Slide R/P 110 620 139 1800 Spring Plate Lock PB 111 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Plate Lock R/P 114 620 139 1815 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4559 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 018 7925 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 012 0821 PCB Head		620 139 1725	Spring PL Motor Switch R/P	1
107 620 139 1763 Spring Arm Gear 108 620 139 1770 Spring Rod Play 109 620 139 1787 Spring Base Slide R/P 110 620 139 1794 Spring Base Slide PB 111 620 139 1800 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Plate Lock R/P 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4566 Spring WD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 012 0821 PCB Head		620 139 1732	Spring PL Motor Switch PB	1
108 620 139 1770 Spring Rod Play 109 620 139 1787 Spring Base Slide R/P 110 620 139 1794 Spring Base Slide PB 111 620 139 1800 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Plate Lock R/P 113 620 139 1831 Spring Lever Record 114 620 139 1855 Spring Dubbing 115 620 139 1855 Spring Dubbing 116 620 139 4559 Spring REV Reel 117 620 139 4566 Spring FWD Reel 118 620 139 4696 Spring 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 7925 Lever Switch	106	620 139 1756	Spring Plate Change	1
109 620 139 1787 Spring Base Slide R/P 110 620 139 1794 Spring Base Slide PB 111 620 139 1800 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4666 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7662 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 PCB Head	107	620 139 1763	Spring Arm Gear	2
110 620 139 1794 Spring Base Slide PB 111 620 139 1800 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 018 7925 Detector Switch 1P1T 129 620 023 6195 PB Rotary	108	620 139 1770	Spring Rod Play	
111 620 139 1800 Spring Plate Lock PB 112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4666 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7648 Spacer 125 620 139 2036 Spring Direction 126 620 118 7662 Spacer 127 620 016 2630 Leaf Switch 127 620 016 8922 Detector Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head	109	620 139 1787	Spring Base Slide R/P	1
112 620 139 1817 Spring Plate Lock R/P 113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 010 0821 PCB Head	110	620 139 1794	Spring Base Slide PB	1
113 620 190 0163 Spring Lever Record 114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7648 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor	111	620 139 1800	Spring Plate Lock PB	1
114 620 139 1831 Spring Speed Switch 115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 012 0821 PCB Head	112	620 139 1817	Spring Plate Lock R/P	1
115 620 139 1855 Spring Dubbing 116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 2630 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 012 0821 PCB Head	113	620 190 0163	Spring Lever Record	1
116 620 139 4467 Spring Flywheel 117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	114	620 139 1831	Spring Speed Switch	1
117 620 139 4559 Spring REV Reel 118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 018 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	115	620 139 1855	Spring Dubbing	1
118 620 139 4566 Spring FWD Reel 119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	116	620 139 4467	Spring Flywheel	4
119 620 139 4696 Spring 120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	117	620 139 4559	Spring REV Reel	2
120 620 117 6636 Metal Mount Direct 121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	118	620 139 4566	Spring FWD Reel	2
121 620 117 6643 Metal Mount Mode 122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	119	620 139 4696	Spring	2
122 620 117 6650 Metal Mount Levers 123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	120	620 117 6636	Metal Mount Direct	2
123 620 119 7648 Spacer 124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	121	620 117 6643	Metal Mount Mode	2
124 620 119 7662 Spacer 125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	122	620 117 6650	Metal Mount Levers	2 2 2 2 2 2 2 2 2 3 1
125 620 139 2036 Spring Direction 126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor	123	620 119 7648	Spacer	2
126 620 016 2630 Leaf Switch 127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	124	620 119 7662	Spacer	2
127 620 016 7925 Lever Switch 1-2 128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	125	620 139 2036	Spring Direction	2
128 620 016 8922 Detector Switch 1P1T 129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	126	620 016 2630	Leaf Switch	3
129 620 023 6195 PB Rotary Head 130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	127	620 016 7925	Lever Switch 1-2	1
130 620 187 4051 R/P.E Rotary Head 131 620 030 4221 Motor 141 620 012 0821 PCB Head	128	620 016 8922	Detector Switch 1P1T	3 1
131 620 030 4221 Motor 141 620 012 0821 PCB Head	129	620 023 6195	PB Rotary Head	
141 620 012 0821 PCB Head	130	620 187 4051	R/P.E Rotary Head	1
	131	620 030 4221	Motor	1
142 620 187 3344 Mecha P.C.B. Assy			PCB Head	2
	142	620 187 3344	Mecha P.C.B. Assy	1

Ref. No.	Part No.	Description	Q′ty
151	411 015 7906	RING E 1.5	2
152	411 017 4804	SCR FLT PCS 1.7X4	2
153	411 021 0205	SCR S-TPG BIN 2X12	1
154	411 021 0809	SCR S-TPG BIN 2X6	3
155	411 021 3107	SCR S-TPG BIN 2.6X8	3
156	412 022 9808	SPECIAL SCREW	4
157	412 023 2303	SPECIAL WASHER	4
158	412 023 2402	SPECIAL WASHER	2
159	411 022 7708	SCR S-TPG PAN 2X5	4
160	411 033 9104	SCR FLT 2.6X5	4
161	411 039 0105	SCR PAN 2X3	2
162	412 025 9201	SPECIAL SCREW	4
163	411 022 8101	SCR S-TPG PAN 2X7	3
164	412 022 4506	SPECIAL WASHER	2
165	412 026 0207	SPECIAL WASHER	2

NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

DOUBLE CASSETTE DECK ELECTRICAL ADJUSTMENT PROCEDURES

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Frequency Counter
- Audio Signal Generator
- Dummy Load (6Ω 60watts resistor)
- Test Tapes
 - 3kHz Test Tape (Example: TEAC MTT-111) for Normal Tape Speed Adjustment
 - ± 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
 - # 400Hz Test Tape (Example: TEAC MTT-150) for Playback Sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
 - Normal Tape (Example: TDK AC 223)
 - t CrO₂ Tape (Example: TDK AC 512)
 - # Metal Tape (Example: TDK AC 712)

NORMAL/DOUBLE TAPE SPEED ADJUSTMENT

- 1. Connect the Dummy load (6Ω 60watts resistor) and the frequency counter to the Speaker terminal (Left channel).
- Short the circuit between test point TP5 and TP6 on the Main P.C.Board. (The unit will be set to the High Speed mode.)
- Load Deck 2 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
- Adjust potentiometer P852 on the Mecha P.C.Board, so that the reading on the frequency counter is 6000Hz ~ 6060Hz.
- 5. Disconnect connecting wire from test point TP5 and TP6.
- Load Deck 2 with a test tape and Adjust potentiometer P851, so that the reading on the frequency counter is 3000Hz ~ 3030Hz.

HEAD AZIMUTH ADJUSTMENT

 Connect the dualtrace oscilloscope and AC VTVM to the Dolby test point TP301 and TP302 (Left and Right channel) on the Main P.C.Board.

Then, set the dualtrace oscilloscope as follows:

#	MODE	CHOP (chopped)
‡	SOURCE	INT (internal), CH1 or CH2
‡	SWEEP MODE	AUTO (automatic)

NOTE:

Adjust the field on the oscilloscope with the VOLT. ADJ. and TIME ADJ.

- Load Deck 2 with a test tape (Example: TEAC MTT-114) and set it in the forward playback mode.
- Adjust the azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the Right channel wave form overlaps with the Left channel one.
- Perform the same adjustment for Deck 1.
- After the adjustment, secure the adjusting screw with paint or glue.

PLAYBACK OUTPUT LEVEL ADJUSTMENT

- Connect the oscilloscope and AC VTVM to the Dolby test point TP301 and TP302 (Left and Right channel) on the Main P.C.Board.
- Load Deck 2 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
- Adjust potentiometer P101, so that the output level becomes 548mV ±0.5dB : Dolby IC305 CXA-1101 (650mV±0.5dB: IC305 HA12136).
- Adjust potentiometer P102 for the Right channel by following the same procedures as described for the Left channel.

RECORDING BIAS LEVEL ADJUSTMENT

- Connect the audio signal generator to the Left channel of the AUX input terminal, and the AC VTVM to the Dolby test point TP301 and TP302 (Left and Right channel) on the Main P.C.Board.
- Load Deck 2 with a normal tape (Example: TDK AC223) and set it in the recording mode.
- 3. Function switch to the AUX position.
- Set the Input Level ATT so that the output level becomes 30mV: IC305 CXA-1101 (36mV: IC305 HA12136) and feed the signals of 1kHz and 12.5kHz from the audio signal generator into the unit. Then, record the signals on the tape.
- 5. Playback the recorded signals and adjust potentiometer P301 for the Left channel, so that the difference in output of the 1kHz and 12.5kHz signals become +1, -0dB.
- Adjust potentiometer P302 for the Right channel by following the same procedures as described for the Left channel.

RECORDING FREQUENCY CHARACTERISTIC RESPONSE ADJUSTMENT

- Perform the same procedures as described for the RE-CORDING BIAS LEVEL ADJUSTMENT.
- Then perform the recoding and playback operations using the CrO₂ tape (Example: TDK AC 512) and METAL tape (Example: TDK AC 712). After that adjust P103 and P104 until the recoding/playback frequency meets the specifications.

P.C.BOARD PART LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Descri	ption	Q′ty
POWE	R P.C.B. ASSY			D715	407 004 9105	DIODE DSF10	C-BT	
61	620 187 3252	Power P.C.B. Assy	1	D716	407 004 9105	DIODE DSF10		i
	620 017 2738	Fuse Clip	16	D717	407 004 9105	DIODE DSF10		1
	620 017 7160 620 022 2587	Socket 2P EC Terminal 1P	1 2	D718 D719	407 005 3805 407 005 3805	DIODE DS442		1
	620 022 3508	Terminal Lug	1	D719	407 008 0405	DIODE DS442- DIODE GMB0		1
	620 187 4044	Push Terminal 8P	1	D721	407 005 3805	DIODE DS442		i
	620 031 4763	Wire Wrap Terminal	12	D722	407 005 3805	DIODE DS442		1
	620 053 7025 620 017 8686	Cover Safety Connector 1P Assy	1	C701 C702	403 050 1308	ELECT	2.2U M 50V	1
CN701	620 187 4037	Plug 11P	1	C702	403 050 1308 403 026 8201	ELECT CERAMIC	2.2U M 50V 470P K 50V	1
CN702	620 182 9013	Plug 7P	i	C704	403 026 8201	CERAMIC	470P K 50V	i
CN703	620 189 8279	Plug 5P	1	C705	403 039 7901	ELECT	100U M 10V	1
CN704	620 182 8955 1 620 006 6679	Plug 3P	1	C706	403 039 7901	ELECT	100U M 10V	1
	∆ 423 006 8700	Capacitor 0.01MF400V FUSE 250VT3.15A	1	C707 C708	403 018 8509 403 018 8509	CERAMIC CERAMIC	220P K 50V 220P K 50V	1
	123 006 8700 123 006 8700 123 006 8700 123 006 8700	FUSE 250VT3.15A	1	C709	403 051 3905	ELECT	47U M 50V	i
	423 007 2103	FUSE 250V T4.0A	1	C710	403 051 3905	ELECT	47U M 50V	1
	1 423 007 2103	FUSE 250V T4.0A	1	C711	403 062 9705	POLYESTER	6800P J 50V	1
	∆ 423 005 0507 ∆ 423 005 0507	FUSE 250V T1.0A FUSE 250V T1.0A	1	C712 C713	403 062 9705 403 057 2100	POLYESTER	6800P J 50V	1
	∆ 423 003 0307 ∆ 423 002 4102	FUSE 250V T1.0A	1 1	C714	403 057 2100	POLYESTER POLYESTER	0.1U J 50V 0.1U J 50V	1
	1 423 006 4702	FUSE 250V T2.5A	i	C715	403 097 6700	ELECT	330U M 50V	1
HS1	620 053 9012	Plate Heat Sink	2	C716	403 049 7304	ELECT	100U M 50V	1
L701	620 026 5478	RF Filter	1	C717	403 049 5508	ELECT	10U M 50V	1
or L702	620 026 5447 620 026 5478	RF Filter RF Filter	1	C718 C720	403 049 5508 403 070 4709	ELECT CERAMIC	10U M 50V 1200P K 50V	1
or	620 026 5447	RF Filter	1	C721	403 070 4709	CERAMIC	1200P K 50V	1
RY701	620 017 0406	Relay	i	C722	403 070 4709	CERAMIC	1200P K 50V	i
SF1	411 020 7700	SCR S-TPG BRZ 3X6	4	C723	403 070 4709	CERAMIC	1200P K 50V	1
T701 Z	∆ 620 187 4068 409 047 0903	Power Trans (Sub Trans)	1	C724 C725	403 043 1100	ELECT	220U M 16V	1
IC701	409 021 0301	IC STK4152MK2 IC LC4913	1 1	C725	403 047 1502 404 012 7000	ELECT CERAMIC	4.7U M 25V 0.01U P 500V	1
IC703	409 026 8500	IC L78M05	i	C728	404 012 7000	CERAMIC	0.01U P 500V	i
Q701	405 021 0600	TR 2SD1012-G-SPA-AC	1	C729	404 012 7000	CERAMIC	0.01U P 500V	1
or Ozoo	405 021 0907	TR 2SD1012-H-SPA-AC	1	C730	404 012 7000	CERAMIC	0.01U P 500V	1
Q702 or	405 021 0600 405 021 0907	TR 2SD1012-G-SPA-AC TR 2SD1012-H-SPA-AC	1 1	C731 C732	404 031 3502 404 031 3502	ELECT ELECT	4700U M 50V 4700U M 50V	1 1
Q703	405 019 2708	TR 2SC536-F-NP-AA	1	C733	403 045 0606	ELECT	100U M 25V	1
or	405 019 3804	TR 2SC536-G-NP-AA	İ	C734	403 042 0302	ELECT	10U M 16V	i
Q704	405 019 2708	TR 2SC536-F-NP-AA	1	C735	403 045 0606	ELECT	100U M 25V	1
or Q705	405 019 3804 405 003 7702	TR 2SC536-G-NP-AA TR 2SA1346	1 1	C736 C737	403 042 0302 404 012 7000	ELECT CERAMIC	10U M 16V 0.01U P 500V	1
Q706	405 035 7107	TR 2SD1913-R	<u> </u>	C738	404 012 7000	CERAMIC	0.01U P 500V 0.01U P 500V	1
or	405 035 7206	TR 2SD1913-S	i	C739	404 012 7000	CERAMIC	0.01U P 500V	1
or	405 023 0707	TR 2SD313-E	1	C740	404 012 7000	CERAMIC	0.01U P 500V	1
or Q707	405 023 1100 405 052 8002	TR 2SD313-F TR 2SB1274-R	1	C741 C742	403 046 0605 403 042 3600	ELECT ELECT	2200U M 25V 100U M 16V	1
or	405 052 8101	TR 2SB1274-S	†	C743	403 042 3600	ELECT	100U M 16V	1
Q708	405 035 7107	TR 2SD1913-R	i	C744	403 042 3600	ELECT	100U M 16V	i
or	405 035 7206	TR 2SD1913-S	1	C745	403 042 3600	ELECT	100U M 16V	1
or or	405 023 0707	TR 2SD313-E	1	C746	404 012 7000	CERAMIC	0.01U P 500V	1
Q709	405 023 1100 405 035 7107	TR 2SD313-F TR 2SD1913-R	1	C747 C748	404 012 7000 404 012 7000	CERAMIC CERAMIC	0.01U P 500V 0.01U P 500V	1 1
or	405 035 7206	TR 2SD1913-S	i	C749	404 012 7000	CERAMIC	0.01U P 500V	i
or	405 023 0707	TR 2SD313-E	1	C750	403 044 3004	ELECT	470U M 16V	1
or 0710	405 023 1100	TR 2SD313-F	. 1	C751	403 038 7209	ELECT	220U M 6.3V	1
Q710 or	405 004 4502 405 004 5004	TR 2SA608-F-NP-AA TR 2SA608-G-NP	† 1	C755 C756	403 069 8404 403 073 1606	CERAMIC CERAMIC	0.01U Z 50V 0.033U Z 50V	1
Q711	405 019 2708	TR 2SC536-F-NP-AA	i	C757	403 050 1308	ELECT	2.2U M 50V	1 1
or	405 019 3804	TR 2SC536-G-NP-AA	i	C758	403 072 2703	CERAMIC	0.022U Z 50V	i
Q712	405 019 2708	TR 2SC536-F-NP-AA	1	C759	403 072 5407	CERAMIC	2700P K 50V	1
or Q713	405 019 3804	TR 2SC536-G-NP-AA	1	R701	401 025 7805	CARBON	2.2K JA 1/6W	1
or	405 021 0600 405 021 0907	TR 2SD1012-G-SPA-AC TR 2SD1012-H-SPA-AC	1 1	R702 R703	401 025 7805 401 024 7400	CARBON CARBON	2.2K JA 1/6W 10K JA 1/6W	1 1
D701	407 003 8000	DIODE DBA40C-K20	i	R704	401 024 7400	CARBON	10K JA 1/6W	1
D702	407 005 3805	DIODE DS442-BT	1	R705	401 027 3003	CARBON	56K JA 1/6W	1
D703	407 005 3805	DIODE DS442-BT	1	R706	401 027 3003	CARBON	56K JA 1/6W	1
D704 D705	407 049 7005	ZENER DIODE GZA15Y	1	R707	401 021 4105	CARBON	56K JA 1/4W	1
D705	407 049 7005 407 049 6602	ZENER DIODE GZA15Y ZENER DIODE GZA13Y-BT	1	R708 R709	401 021 4105 401 026 9600	CARBON CARBON	56K JA 1/4W 470 JA 1/6W	1
D707	407 049 6305	ZENER DIODE GZA12Y-BT	1	R710	401 026 9600	CARBON	470 JA 1/6W	1
D708	407 004 9105	DIODE DSF10C-BT	i	R711	401 016 3809	CARBON	2.2K JA 1/4W	i
D709	407 004 9105	DIODE DSF10C-BT	1	R712	401 016 3809	CARBON	2.2K JA 1/4W	1
D710 D711	407 004 9105	DIODE DSF10C-BT	1	R713	402 040 5906	OXIDE-MT	2.2K JB 1/2W	1
D711	407 004 9105 407 004 9105	DIODE DSF10C-BT DIODE DSF10C-BT	1 1	R714 R715	402 040 5906 402 015 7706	OXIDE-MT FUSIBLE RES	2.2K JB 1/2W 100 J- 1/4W	1
D713	407 004 9105	DIODE DSF10C-BT	1	R716	402 015 7706	FUSIBLE RES	100 J- 1/4W	1
D714	407 004 9105	DIODE DSF10C-BT	1	R718	402 039 5603	OXIDE-MT	4.7K JB 1/2W	1

Ref. No.	Part No.	Description	1	Q'ty	Ref. No.	Part No.	Description	Q′ty
R719	401 024 7400	CARBON	10K JA 1/6W	1	Q301	405 016 2206	TR 2SC2878-A	1
R720	401 024 7400	CARBON	10K JA 1/6W	1	or	405 016 2305	TR 2SC2878-B	1
R721	401 027 9005	CARBON	82K JA 1/6W	1	Q302	405 016 2206	TR 2SC2878-A	1
R722 R723	401 027 9005 401 024 7400	CARBON CARBON	82K JA 1/6W 10K JA 1/6W	1 1	or Q303	405 016 2305 405 018 2600	TR 2SC2878-B	1
R724	401 024 7400	CARBON	10K JA 1/6W	i	Q304	405 018 2600	TR 2SC3400 TR 2SC3400	1
R725	402 016 4506	FUSIBLE RES	10 J- 1/2W	i	Q305	405 018 2600	TR 2SC3400	i
R726	402 016 4506	FUSIBLE RES	10 J- 1/2W	1	Q306	405 018 2600	TR 2SC3400	i
R727	401 016 2604	CARBON	220 JA 1/4W	1	Q307	405 019 2708	TR 2SC536-F-NP-AA	1
R728	401 025 4903	CARBON	180K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-NP-AA	1
R729 R730	401 025 8208 402 040 6200	CARBON OXIDE-MT	22K JA 1/6W 100 JB 1/2W	1 1	Q308	405 019 2708	TR 2SC536-F-NP-AA	1
R731	402 040 6200	OXIDE-MT	100 JB 1/2W	i	or Q309	405 019 3804 405 018 7308	TR 2SC536-G-NP-AA TR 2SC3708-T	1
R732	402 016 5503	FUSIBLE RES	47 J- 1/2W	i	or	405 018 7209	TR 2SC3708-S	i
R733	402 040 5104	OXIDE-MT	680 JB 1/2W	1	Q310	405 018 7308	TR 2SC3708-T	1
R734	402 016 5503	FUSIBLE RES	47 J- 1/2W	1	or	405 018 7209	TR 2SC3708-S	1
R735 R736	402 040 5104 402 034 4700	OXIDE-MT	680 JB 1/2W	1	Q311	405 018 7308	TR 2SC3708-T	1
R737	402 040 5104	FUSIBLE RES OXIDE-MT	0.47 J- 1/2W 680 JB 1/2W	1	or Q312	405 018 7209 405 018 7308	TR 2SC3708-S TR 2SC3708-T	1
R738	402 040 7900	FUSIBLE RES	1 JA 1/2W	i	or	405 018 7209	TR 2SC3708-S	i
R739	402 040 5104	OXIDE-MT	680 JB 1/2W	1	Q313	405 018 7308	TR 2SC3708-T	1
R740	401 016 3809	CARBON	2.2K JA 1/4W	1	or	405 018 7209	TR 2SC3708-S	1
R741	401 012 5708	CARBON	1K JA 1/4W	1	Q314	405 018 7308	TR 2SC3708-T	1
R742 R743	401 016 4806 401 025 8208	CARBON CARBON	22K JA 1/4W 22K JA 1/6W	1 1	0f 0215	405 018 7209	TR 2SC3708-S	1
R745	401 025 8208	CARBON	22K JA 1/6W	1	Q315 or	405 001 8107 405 001 8206	TR 2SA1016K-F TR 2SA1016K-G	1
R746	401 024 8001	CARBON	1M JA 1/6W	i	Q316	405 019 2708	TR 2SC536-F-NP-AA	: 1
R747	401 024 7707	CARBON	100K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-NP-AA	i
R748	401 027 0309	CARBON	47K JA 1/6W	1	Q317	405 018 2600	TR 2SC3400	1
A4 4 44 D	0.0.4007/001	DV 10 OV 14404	4 4 4 4 4 4 1		Q318	405 021 0600	TR 2SD1012-G-SPA-AC	1
62	.C.B. ASSY (DOL 620 187 3290	.BY IC CXA1101P , Main P.C.B. Assy	, ,	1	or 0210	405 021 0907	TR 2SD1012-H-SPA-AC	1
UZ.	620 182 8795	Pin Jack 6P ALL		1	Q319 or	405 021 0600 405 021 0907	TR 2SD1012-G-SPA-AC TR 2SD1012-H-SPA-AC	1
	620 022 3508	Terminal Lug	J.,	2	Q320	405 018 0101	TR 2SC3331-T	i
	620 031 4763	Wire Wrap Termi	nal	3	or	405 018 0002	TR 2SC3331-S	1
CA301	620 187 9001	Connector 11P A		1	Q321	405 018 0101	TR 2SC3331-T	1
CA302 CA303	620 187 9025	Connector 3P As	•	1	or	405 018 0002	TR 2SC3331-S	1
CN303	620 187 8974 620 182 8955	Connector 4P As Plug 3P	sy	1	Q322 or	405 021 0600 405 021 0907	TR 2SD1012-G-SPA-AC	1
CN302	620 182 8948	Plug 6P		1	Q323	405 021 0600	TR 2SD1012-H-SPA-AC TR 2SD1012-G-SPA-AC	1
CN303	620 022 0545	Plug 2P		1	or	405 021 0907	TR 2SD1012-H-SPA-AC	1
CN304	620 182 8955	Plug 3P		1	Q324	405 018 2600	TR 2SC3400	1
CN305	620 182 9013	Plug 7P		1	Q325	405 019 2708	TR 2SC536-F-NP-AA	1
CN306 CN307	620 182 9006 620 182 9037	Plug 5P Plug 9P		1	or Q326	405 019 3804	TR 2SC536-G-NP-AA	1
CN308	620 182 8955	Plug 3P		i	Q327	405 018 2600 405 019 2708	TR 2SC3400 TR 2SC536-F-NP-AA	1
CN309	620 182 9006	Plug 5P		1	or	405 019 3804	TR 2SC536-G-NP-AA	1
CN310	620 021 6555	Plug 4P		1	Q328	405 019 2708	TR 2SC536-F-NP-AA	1
P301	620 004 6763	Semi Fixed (B-10		1	or	405 019 3804	TR 2SC536-G-NP-AA	1
or P302	620 192 4985 620 004 6763	Semi Fixed (B-10 Semi Fixed (B-10		1 1	Q329	405 019 2708	TR 2SC536-F-NP-AA	1
or	620 192 4985	Semi Fixed (B-10		1	or Q330	405 019 3804 405 019 2708	TR 2SC536-G-NP-AA TR 2SC536-F-NP-AA	1
P303	620 006 1346	Potentiometer 22		i	or	405 019 3804	TR 2SC536-G-NP-AA	i
or	620 006 1988	Potentiometer (B		1	Q331	405 019 2708	TR 2SC536-F-NP-AA	i
P304	620 006 1346	Potentiometer 22		1	or	405 019 3804	TR 2SC536-G-NP-AA	1
or SW301	620 006 1988 620 187 8868	Potentiometer (B Slide Switch	-200Ω)	1	Q332	405 019 2708	TR 2SC536-F-NP-AA	1
T301	620 191 6638	Filter Dolby		1	or Q333	405 019 3804 405 021 0600	TR 2SC536-G-NP-AA TR 2SD1012-G-SPA-AC	1
or	620 029 5864	Filter Dolby		i	or	405 021 0907	TR 2SD1012-H-SPA-AC	1
T302	620 191 6638	Filter Dolby		1	Q334	405 021 0600	TR 2SD1012-G-SPA-AC	i
or	620 029 5864	Filter Dolby		1	or	405 021 0907	TR 2SD1012-H-SPA-AC	1
T303 T304	620 026 4631	Bias Trap 105 Sh		1	Q335	405 018 2600	TR 2SC3400	1
T304	620 026 4631 620 026 4440	Bias Trap 105 Sh Bias Trap	ieia	1	Q336	405 019 2708 405 019 3804	TR 2SC536-F-NP-AA	1
T306	620 026 4440	Bias Trap		i	or Q337	405 019 2708	TR 2SC536-G-NP-AA TR 2SC536-F-NP-AA	1
T307	620 027 1899	Coil, 6.8MH/2.2M	H.	1	or	405 019 3804	TR 2SC536-G-NP-AA	i
T308	620 027 1899	Coil, 6.8MH/2.2M	H.	1	Q338	405 018 2600	TR 2SC3400	1
T309	620 191 6058	Bias OSC Coil		1	Q339	405 018 2600	TR 2SC3400	1
or IC301	620 028 8989 409 018 4503	Bias OSC Coil IC LA6458DS		1	Q340	405 018 2600	TR 2SC3400	1
IC302	409 053 0300	IC TC9152P		1	Q341 Q342	405 018 2600 405 018 2600	TR 2SC3400	1
IC303	409 018 4503	IC LA6458DS		i	Q342 Q343	405 018 2600	TR 2SC3400 TR 2SC3400	1
IC304	409 121 8702	IC LA3246		i	Q344	405 018 2600	TR 2SC3400	1
IC305	409 119 9803	IC CXA1101P		1	Q345	405 019 2708	TR 2SC536-F-NP-AA	i
IC306	409 018 5401	IC LA6462S		1	or	405 019 3804	TR 2SC536-G-NP-AA	1
IC307 IC308	409 020 6601	IC LC4001B		1	Q347	405 018 7308	TR 2SC3708-T	1
IC309	409 053 0201 409 020 9107	IC TC9150P IC LC4069UB		1	or Q348	405 018 7209 405 003 7702	TR 2SC3708-S TR 2SA1346	1
IC310	409 020 6908	IC LC4011B		i	Q349	405 003 7702	TR 2SC3400	1
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0350 0350	Ref. No.	Part No.	Description	Q′ty	Ref. No.	Part No.	Descri	ption	Q′ty
0.5352 465 019 7002 TR 78C54900 1	Q350	405 018 2600	TR 2SC3400	1	C333	403 073 8407	CERAMIC	4700P K 50\	/ 1
0350 465 003 7702 TR 2841346 1				1	C334	403 073 8407	CERAMIC	4700P K 50\	/ 1
03594 405 013 7702 TR 25A1346 1 C337 403 049 1609 ELECT 1U M 50V 1 1 5				1					
0.955				1					
456 003 7702				•					
0.9586				•					
0.958				•					
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0.361 405 018 2000 TR 25C3400		405 018 2600	TR 2SC3400	1	C342	403 031 2805			
495 018 2800				•					
0.363 409 018 2600 TR 25C3400 1 C346 403 047 1502 ELECT 4.7U M 16V 1				-					
March Marc				•					
0.902 407 008 0405 DIODE GMB0-BT				•					
1933 407 008 0405 DIODE GMB01-BT				•					
1935 407 008 0405 DIODE GMB01-BT 1									
1930 407 005 8805 DIODE DS442-BT 1	D304	407 008 0405	DIODE GMB01-BT	1					
1936 407 005 3805 DIODE DS442-BT				•		403 062 0108			
1938 407 005 3805 DIODE DS442-BT				•					
1939 407 008 9405 DIODE OMB01-BT 1				•					
1				•					
1				•					
1									
D313									
D315				1					
D316	D314	407 008 0405	DIODE GMB01-BT	1	C360	403 050 1209	ELECT	2.2U M 50V	1
D311				•		403 031 2805	CERAMIC		
D318 407 008 0405 DIODE GMB01-BT									
D339				•					
D320 407 008 0405 DIODE GMB01-BT				•					
10322 407 008 0405 DIODE GMB01-BT									
1932 407 008 0405 DIODE GMB01-BT				•					
D325 407 008 0405 DIODE GMB01-BT				i					
D325 4477 089 6405 DIODE GMB01-BT	D323	407 008 0405	DIODE GMB01-BT	1	C369				
D326									
DAZE 407 008 0405 DIODE GMB01-BT 1									
D328				-					
D329									
D330									
D331 407 005 3805 DIODE DS442-BT									
D334 407 049 5407 ZENER DIODE GZA10X-BT 1 C379 403 074 2701 CERAMIC 0.047U Z 50V 1 C302 403 018 8509 CERAMIC 220P K 50V 1 C380 403 074 2701 CERAMIC 0.047U Z 50V 1 C302 403 018 8509 CERAMIC 220P K 50V 1 C381 403 047 1502 ELECT 4.7U M 25V 1 C303 403 028 8201 CERAMIC 470P K 50V 1 C382 403 047 1502 ELECT 4.7U M 25V 1 C304 403 028 8201 CERAMIC 470P K 50V 1 C382 403 047 1502 ELECT 4.7U M 25V 1 C305 403 047 1502 ELECT 4.7U M 25V 1 C384 403 009 8105 CERAMIC 100P K 50V 1 C306 403 047 1502 ELECT 4.7U M 25V 1 C384 403 009 8105 CERAMIC 100P K 50V 1 C306 403 047 1502 ELECT 4.7U M 25V 1 C386 403 042 0302 ELECT 10U M 16V 1 C307 403 018 8509 CERAMIC 220P K 50V 1 C386 403 042 0302 ELECT 10U M 16V 1 C308 403 089 2906 ELECT 4.7U M 6.3V 1 C387 403 060 1008 POLYESTER 2700P K 50V 1 C310 403 089 2906 ELECT 4.7U M 6.3V 1 C389 403 047 1502 ELECT 4.7U M 25V 1 C311 403 018 8509 CERAMIC 220P K 50V 1 C389 403 047 1502 ELECT 4.7U M 25V 1 C311 403 018 8509 CERAMIC 220P K 50V 1 C389 403 047 1502 ELECT 4.7U M 25V 1 C311 403 018 8509 CERAMIC 220P K 50V 1 C390 403 047 1502 ELECT 4.7U M 25V 1 C313 403 088 9803 POLYESTER 2018U J 50V 1 C391 403 042 3600 ELECT 4.7U M 25V 1 C313 403 088 9803 POLYESTER 0.018U J 50V 1 C392 403 042 3600 ELECT 4.7U M 25V 1 C316 403 049 1809 ELECT 10U M 16V 1 C395 403 047 1502 ELECT 10U M 16V 1 C316 403 049 1809 ELECT 10U M 16V 1 C396 403 049 1609 ELECT 10U M 16V 1 C318 403 049 1609 ELECT 10U M 16V 1 C392 403 047 1502 ELECT 4.7U M 50V 1 C318 403 049 1609 ELECT 10U M 16V 1 C322 403 042 300	D331	407 005 3805		1					
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C317	C315	403 061 7801	POLYESTER 4700P J	50V 1					1
C318						403 049 1609	ELECT	1U M 50V	1
C319									
C320									
C321									
C322 403 042 3600 ELECT									
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C324									
C325	C324								
C327			ELECT 4.7U M	25V 1	C404	403 047 1502	ELECT		
C328									
C329									
C330 403 042 0302 ELECT 10U M 16V 1 C409 403 042 3600 ELECT 100U M 16V 1 C331 403 051 2007 ELECT 4.7U M 50V 1 C410 403 049 1609 ELECT 1U M 50V 1									
C331 403 051 2007 ELECT 4.7U M 50V 1 C410 403 049 1609 ELECT 1U M 50V 1									
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Ref. No.	Part No.	Descript	lion	Q′ty	Ref. No.	Part No.	Desc	cription	Q′ty
C412	403 040 2704		22U M 10V	1	R348	401 025 8208	CARBON	22K JA 1/6W	
C413	403 040 2704		22U M 10V	1	R349	401 025 7409	CARBON	220 JA 1/6W	1
C414 C415	403 048 3109 403 048 3109		0.22U M 50V	1	R350	401 025 7409	CARBON	220 JA 1/6W	1
C418	403 042 0302	ELECT ELECT	0.22U M 50V 10U M 16V	1	R351	401 024 6700	CARBON	100 JA 1/6W	1
C419	403 042 0302		10U M 16V	1	R352 R353	401 024 6700 401 024 7400	CARBON	100 JA 1/6W	1
C420	403 057 0106		0.01U J 50V	i	R354	401 024 7400	CARBON CARBON	10K JA 1/6W	1
C421	403 057 0106	POLYESTER	0.01U J 50V	1	R355	401 026 4308	CARBON	10K JA 1/6W 3.3K JA 1/6W	1
C422	403 057 7204	POLYESTER	0.012U J 50V	1	R356	401 026 4308	CARBON	3.3K JA 1/6W	1
C423 C424	403 057 7204 403 058 2901	POLYESTER POLYESTER	0.012U J 50V	1	R357	401 024 7004	CARBON	1K JA 1/6W	1
C425	403 058 2901	POLYESTER	0.015U J 50V 0.015U J 50V	1	R358	401 024 7004	CARBON	1K JA 1/6W	1
C426	403 026 8201	CERAMIC	470P K 50V	1	R359 R360	401 025 8703 401 025 8703	CARBON	220K JA 1/6W	1
C427	403 026 8201	CERAMIC	470P K 50V	i	R361	401 027 3003	CARBON CARBON	220K JA 1/6W 56K JA 1/6W	1
C428	403 026 8201	CERAMIC	470P K 50V	1	R362	401 027 3003	CARBON	56K JA 1/6W	1
C429 C430	403 026 8201 403 042 0302	CERAMIC	470P K 50V	1	R363	401 022 3107	CARBON	6.8K JA 1/4W	i
C431	403 042 0302	ELECT MT-COMPO	10U M 16V 0.68U J 50V	1	R364	401 022 3107	CARBON	6.8K JA 1/4W	1
C432	403 067 8307	MT-COMPO	0.68U J 50V	1	R365	401 012 4107	CARBON	100 JA 1/4W	1
C433	403 048 7602	ELECT	0.47U M 50V	i	or R366	401 012 4503 401 027 0309	CARBON CARBON	100 JA 1/4W	1
C434	403 057 0106	POLYESTER	0.01U J 50V	.1	R367	401 012 4107	CARBON	47K JA 1/6W 100 JA 1/4W	1
C435	403 040 2704	ELECT	22U M 10V	1	or	401 012 4503	CARBON	100 JA 1/4W	1
C436 C437	403 069 0705 403 049 1609	CERAMIC	1000P K 50V	1	R368	401 012 7009	CARBON	10K JA 1/4W	1
C438	403 069 0705	ELECT CERAMIC	1U M 50V 1000P K 50V	1	R369	401 024 7400	CARBON	10K JA 1/6W	1
C439	403 069 0705	CERAMIC	1000P K 50V	1 1	R370 R371	401 024 7400	CARBON	10K JA 1/6W	1
C440	403 069 0705	CERAMIC	1000P K 50V	i	R372	401 024 7707 401 024 7707	CARBON CARBON	100K JA 1/6W	1
C441	403 069 0705	CERAMIC	1000P K 50V	i	R373	401 012 3407	CARBON	100K JA 1/6W 10 JA 1/4W	1
C442	403 067 7805	MT-COMPO	0.47U J 50V	1	R374	401 012 3407	CARBON	10 JA 1/4W	i
C443 C444	403 018 8509 403 018 8509	CERAMIC CERAMIC	220P K 50V	1	R375	401 026 9907	CARBON	4.7K JA 1/6W	1
R301	401 025 7805	CARBON	220P K 50V 2.2K JA 1/6W	1	R376	401 026 9907	CARBON	4.7K JA 1/6W	1
R302	401 025 7805	CARBON	2.2K JA 1/6W	1	R377 R378	401 024 7707 401 024 7707	CARBON	100K JA 1/6W	1
R303	401 025 0004	CARBON	120K JA 1/6W	i	R379	401 026 9907	CARBON CARBON	100K JA 1/6W 4.7K JA 1/6W	1
R304	401 025 0004	CARBON	120K JA 1/6W	1	R380	401 024 7707	CARBON	100K JA 1/6W	1
R305 R306	401 024 7707 401 024 7707	CARBON	100K JA 1/6W	1	R381	401 022 3107	CARBON	6.8K JA 1/4W	i
R307	401 026 0607	CARBON CARBON	100K JA 1/6W 270 JA 1/6W	1	R382	401 022 3107	CARBON	6.8K JA 1/4W	1
R308	401 026 0607	CARBON	270 JA 1/6W	1	R383 R384	401 016 3809 401 016 3809	CARBON	2.2K JA 1/4W	1
R309	401 025 8703	CARBON	220K JA 1/6W	i	R385	401 024 7400	CARBON CARBON	2.2K JA 1/4W 10K JA 1/6W	1
R310	401 025 8703	CARBON	220K JA 1/6W	1	R386	401 024 7400	CARBON	10K JA 1/6W	1
R311 R312	401 025 1902 401 025 1902	CARBON	15K JA 1/6W	1	R387	401 018 2800	CARBON	330 JA 1/4W	i
R313	401 023 1902	CARBON CARBON	15K JA 1/6W 100K JA 1/6W	1	R388	401 012 7009	CARBON	10K JA 1/4W	1
R314	401 024 7707	CARBON	100K JA 1/6W	1 1	R389 R390	401 024 9701	CARBON	12K JA 1/6W	1
R315	401 012 5708	CARBON	1K JA 1/4W	i	R391	401 024 9701 401 025 7805	CARBON CARBON	12K JA 1/6W 2.2K JA 1/6W	1
R316	401 024 7004	CARBON	1K JA 1/6W	1	R392	401 025 7805	CARBON	2.2K JA 1/6W	1
R317 R318	401 016 2604	CARBON	220 JA 1/4W	1	R393	401 025 4606	CARBON	18K JA 1/6W	i
R319	401 016 2604 401 024 7004	CARBON CARBON	220 JA 1/4W	1	R394	401 025 4606	CARBON	18K JA 1/6W	1
R320	401 024 7004	CARBON	1K JA 1/6W 1K JA 1/6W	1	R395 R396	401 026 1000	CARBON	2.7K JA 1/6W	1
R321	401 024 7707	CARBON	100K JA 1/6W	i	R397	401 026 1000 401 025 8208	CARBON CARBON	2.7K JA 1/6W	1
R322	401 024 7707	CARBON	100K JA 1/6W	i	R398	401 025 8208	CARBON	22K JA 1/6W 22K JA 1/6W	1
R323	401 025 8208	CARBON	22K JA 1/6W	1	R399	401 024 7400	CARBON	10K JA 1/6W	1
R324 R325	401 025 8208 401 027 0309	CARBON CARBON	22K JA 1/6W	1	R400	401 024 7400	CARBON	10K JA 1/6W	i
R326	401 027 0309	CARBON	47K JA 1/6W 47K JA 1/6W	1	R401	401 024 7400	CARBON	10K JA 1/6W	1
R327	401 012 4107	CARBON	100 JA 1/4W	1	R402 R403	401 012 7009 401 012 7009	CARBON	10K JA 1/4W	1
or	401 012 4503	CARBON	100 JA 1/4W	1	R404	401 024 7707	CARBON CARBON	10K JA 1/4W 100K JA 1/6W	1
R328	401 016 2604	CARBON	220 JA 1/4W	1	R405	401 012 7009	CARBON	10K JA 1/4W	1
R329 R330	401 012 5708	CARBON	1K JA 1/4W	1	R406	401 024 7707	CARBON	100K JA 1/6W	i
R331	401 026 4605 401 024 7707	CARBON CARBON	33K JA 1/6W	1	R407	401 012 7009	CARBON	10K JA 1/4W	1
R332	401 024 7707	CARBON	100K JA 1/6W 100K JA 1/6W	1	R408 R409	401 024 7707	CARBON	100K JA 1/6W	1
R333	401 024 7400	CARBON	10K JA 1/6W	i	R410	401 024 7707 401 024 7707	CARBON CARBON	100K JA 1/6W	1
R334	401 024 7400	CARBON	10K JA 1/6W	1	R411	401 026 7606	CARBON	100K JA 1/6W 390K JA 1/6W	1
R335	401 025 8208	CARBON	22K JA 1/6W	1	R412	401 026 7606	CARBON	390K JA 1/6W	1
R336 R337	401 025 8208 401 024 7707	CARBON	22K JA 1/6W	1	R413	401 027 8602	CARBON	8.2K JA 1/6W	1
R338	401 024 7707	CARBON CARBON	100K JA 1/6W 100K JA 1/6W	1	R414	401 027 8602	CARBON	8.2K JA 1/6W	1
R339	401 016 2604	CARBON	220 JA 1/4W	1 1	R415 R416	401 026 4308	CARBON	3.3K JA 1/6W	1
R340	401 016 2604	CARBON	220 JA 1/4W	1	R416 R417	401 026 4308 401 027 5502	CARBON CARBON	3.3K JA 1/6W	1
R341	401 027 0309	CARBON	47K JA 1/6W	i	R418	401 027 5502	CARBON	6.8K JA 1/6W 6.8K JA 1/6W	1
R342 R343	401 026 3905	CARBON	330 JA 1/6W	1	R419	401 022 1905	CARBON	680 JA 1/4W	1
R344	401 024 7707 401 024 7707	CARBON CARBON	100K JA 1/6W	1	R420	401 012 4107	CARBON	100 JA 1/4W	i
R345	401 013 7305	CARBON	100K JA 1/6W 120K JA 1/4W	1	0r D404	401 012 4503	CARBON	100 JA 1/4W	1
R346	401 013 7305	CARBON	120K JA 1/4W	1 1	R421 R422	401 012 7009 401 024 7400	CARBON	10K JA 1/4W	1
R347	401 025 8208	CARBON	22K JA 1/6W	i	R423	401 024 7400	CARBON CARBON	10K JA 1/6W	1
							CALIDON	10K JA 1/6W	1

Ref. No.	Part No.	Descrip	otion	Q'ty	Ref. No.	Part No.	Descri	ption	Q'ty
R424	401 024 7400	CARBON	10K JA 1/6W	1	VR604	620 006 3746	Slide Volume	(W-100kΩx2)	1
R425	401 026 9006	CARBON	43K JA 1/6W	1	VR605	620 006 3746	Slide Volume		1
R426	401 016 4806	CARBON	22K JA 1/4W	1	VR606	620 187 8837	Slide Volume	50KMNX2	1
R427 R428	401 026 9907 401 026 9907	CARBON CARBON	4.7K JA 1/6W 4.7K JA 1/6W	1 1	IC601 Q601	409 018 4503	IC LA6458DS	ND AA	1
R429	401 020 9907	CARBON	6.8K JA 1/6W	1 .	or	405 019 2708 405 019 3804	TR 2SC536-F- TR 2SC536-G-		1
R430	401 027 5502	CARBON	6.8K JA 1/6W	i	Q602	405 019 2708	TR 2SC536-F-		1
R431	401 012 7009	CARBON	10K JA 1/4W	1	or	405 019 3804	TR 2SC536-G-		1
R432	401 012 7009	CARBON	10K JA 1/4W	1	Q603	405 019 2708	TR 2SC536-F-		1
R433	401 015 3800	CARBON	18K JA 1/4W	1	or	405 019 3804	TR 2SC536-G-		1
R434	401 015 3800	CARBON	18K JA 1/4W	1	Q604	405 019 2708	TR 2SC536-F-		1
R435 R436	401 025 4606 401 025 4606	CARBON CARBON	18K JA 1/6W 18K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-]
R437	401 026 9907	CARBON	4.7K JA 1/6W	1	Q605 or	405 019 2708 405 019 3804	TR 2SC536-F- TR 2SC536-G-		1
R438	401 026 9907	CARBON	4.7K JA 1/6W	i	Q606	405 019 2708	TR 2SC536-F-		1
R439	401 026 7408	CARBON	39K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-		1
R440	401 026 7408	CARBON	39K JA 1/6W	1	Q607	405 019 2708	TR 2SC536-F-		1
R441	401 027 0309	CARBON	47K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-		1
R442	401 027 3003	CARBON	56K JA 1/6W	1	Q608	405 019 2708	TR 2SC536-F-I		1
R443 R444	401 025 8703 401 025 8703	CARBON CARBON	220K JA 1/6W 220K JA 1/6W	1	or	405 019 3804 405 019 2708	TR 2SC536-G-		1
R445	401 026 1000	CARBON	2.7K JA 1/6W	i	Q609 or	405 019 2708	TR 2SC536-F-I TR 2SC536-G-		1
R446	401 026 1000	CARBON	2.7K JA 1/6W	i	Q610	405 019 2708	TR 2SC536-F-		1
R447	401 026 7408	CARBON	39K JA 1/6W	1	or	405 019 3804	TR 2SC536-G-		i
R448	401 026 7408	CARBON	39K JA 1/6W	1	D601	407 108 1104	LED SLC-26VF		1
R449	401 025 1902	CARBON	15K JA 1/6W	1	C601	403 059 0401	POLYESTER		50V 1
R450	401 025 1902	CARBON	15K JA 1/6W	1	C602	403 059 0401	POLYESTER		50V 1
R451 R452	401 024 7707 401 024 7707	CARBON CARBON	100K JA 1/6W 100K JA 1/6W	1	C603	403 050 1209	ELECT		50V 1
R453	401 024 7400	CARBON	10K JA 1/6W	1	C604 C605	403 050 1209 403 063 6208	ELECT POLYESTER		50V 1 50V 1
R454	401 024 7400	CARBON	10K JA 1/6W	1	C606	403 063 6208	POLYESTER		50V 1
R455	401 024 6700	CARBON	100 JA 1/6W	1	C607	403 048 7602	ELECT		50V 1
R456	401 024 6700	CARBON	100 JA 1/6W	1	C608	403 048 7602	ELECT	0.47U M	50V 1
R457	401 025 3807	CARBON	180 JA 1/6W	1	C609	403 061 8709	POLYESTER		50V 1
R458 R459	401 025 3807	CARBON	180 JA 1/6W	1	C610	403 061 8709	POLYESTER		50V 1
R460	401 022 3107 401 012 4107	CARBON CARBON	6.8K JA 1/4W 100 JA 1/4W	1 1	C611 C612	403 063 8103 403 063 8103	POLYESTER		50V 1
or	401 012 4503	CARBON	100 JA 1/4W	1	C613	403 058 1607	POLYESTER POLYESTER		50V 1 50V 1
R461	401 024 9701	CARBON	12K JA 1/6W	i	C614	403 058 1607	POLYESTER		50V 1
R462	401 024 9701	CARBON	12K JA 1/6W	1	C615	403 059 6601	POLYESTER		50V 1
R463	401 016 2604	CARBON	220 JA 1/4W	1	C616	403 059 6601	POLYESTER	0.022U K	50V 1
R464	401 014 2903	CARBON	150 JA 1/4W	1	C617	403 074 9007	CERAMIC		50V 1
R465 R466	401 024 7400 401 019 9600	CARBON CARBON	10K JA 1/6W	1	C618	403 074 9007	CERAMIC		50V 1
R467	401 019 9600	CARBON	47 JA 1/4W 3.9 JA 1/4W	1 1	C619 C620	403 061 8709 403 061 8709	POLYESTER POLYESTER		50V 1 50V 1
R468	401 016 4806	CARBON	22K JA 1/4W	1	C621	403 001 5709	CERAMIC		50V 1
R469	401 024 7707	CARBON	100K JA 1/6W	1	C622	403 071 5903	CERAMIC		50V 1
R470	401 024 7707	CARBON	100K JA 1/6W	1	C623	403 049 1609	ELECT		50V 1
R471	401 024 7707	CARBON	100K JA 1/6W	1	C624	403 049 1609	ELECT		50V 1
R472	401 024 7707	CARBON	100K JA 1/6W	1	C625	403 071 6207	CERAMIC		50V 1
R473 R474	401 024 7707 401 024 7707	CARBON CARBON	100K JA 1/6W	1	C626	403 071 6207	CERAMIC		50V 1
R475	401 024 7707	CARBON	100K JA 1/6W 100K JA 1/6W	1	C627 C628	403 008 5204 403 008 5204	CERAMIC CERAMIC		50V 1 50V 1
R476	401 024 7400	CARBON	10K JA 1/6W	i	C631	403 045 7100	ELECT		25V 1
R477	401 012 7009	CARBON	10K JA 1/4W	i	C632	403 045 7100	ELECT		25V 1
R478	401 012 7009	CARBON	10K JA 1/4W	1	C633	403 044 8207	ELECT		25V 1
R479	401 022 3107	CARBON	6.8K JA 1/4W	1	C634	403 044 8207	ELECT		25V 1
R480	401 016 4806	CARBON	22K JA 1/4W	1	C635	403 042 3600	ELECT		16V 1
R481 R482	401 024 6700 401 024 6700	CARBON CARBON	100 JA 1/6W 100 JA 1/6W	1	C636	403 042 3600	ELECT	100U M	
R483	401 024 6700	CARBON	100 JA 1/6W	1	R601 R602	401 026 6609 401 026 6609	CARBON CARBON	390 JA 1/ 390 JA 1/	
R484	401 024 6700	CARBON	100 JA 1/6W	i	R603	401 027 8602	CARBON	8.2K JA 1/	
R485	401 026 4902	CARBON	330K JA 1/6W	i	R604	401 027 8602	CARBON	8.2K JA 1/	
R486	401 027 6103	CARBON	680K JA 1/6W	1	R605	401 025 2305	CARBON	150K JA 1/	
R487	401 027 0309	CARBON	47K JA 1/6W	1	R606	401 025 2305	CARBON	150K JA 1/	'6W 1
R488	401 026 7408	CARBON	39K JA 1/6W	1	R607	401 024 9305	CARBON	1.2K JA 1/	
R489	401 026 9907	CARBON	4.7K JA 1/6W	1	R608	401 024 9305	CARBON	1.2K JA 1/	
GRAPHI	C EQUALIZER P	CR ASSV			R609 R610	401 026 6609 401 026 6609	CARBON	390 JA 1/	
63	620 187 3313		alizer P.C.B. Assy	1	R611	401 027 8602	CARBON CARBON	390 JA 1/ 8.2K JA 1/	
	620 186 4205	LED Holder		, 1	R612	401 027 8602	CARBON	8.2K JA 1/	
CA601	620 187 8950	Connector 7F	P Assy	i	R613	401 024 7707	CARBON	100K JA 1/	
CA602	620 187 9049	Connector 3F		1	R614	401 024 7707	CARBON	100K JA 1/	
CA603	620 187 9032	Connector 3F		1	R615	401 024 9305	CARBON	1.2K JA 1/	6W 1
SW601	620 016 4375	Push Switch		1	R616	401 024 9305	CARBON	1.2K JA 1/	
SW602 VR601	620 014 8320 620 006 3746	Keyboard Sw		1	R617	401 026 6609	CARBON	390 JA 1/	
VR602	620 006 3746	Slide Volume Slide Volume		1 1	R618 R619	401 026 6609 401 027 8602	CARBON CARBON	390 JA 1/ 8.2K JA 1/	
VR603	620 006 3746	Slide Volume		1	R620	401 027 8602	CARBON	8.2K JA 1/	
								U.ER UA II	

Ref. No.	Part No.	Descrip	otion	Q′ty	Ref. No.	Part No.	Description	on	Q′ty
R621	401 026 7408	CARBON	39K JA 1/6W	1	R903	402 040 5005	OXIDE-MT	150 JB 1/2W	
R622	401 026 7408	CARBON	39K JA 1/6W	1	R904	402 040 5005	OXIDE-MT	150 JB 1/2W	1
R623	401 025 1605	CARBON	1.5K JA 1/6W	1					
R624 R625	401 025 1605	CARBON	1.5K JA 1/6W	1		IE P.C.B. ASSY			
R626	401 026 6609	CARBON	390 JA 1/6W	1	66	620 187 3375	Volume P.C.B. A	ssy	1
R627	401 026 6609 401 027 8602	CARBON CARBON	390 JA 1/6W	1		620 031 4763	Wire Wrap Term		2
R628	401 027 8602	CARBON	8.2K JA 1/6W	1	CA951	620 187 9018	Connector 3P As	•	1
R629	401 026 4605	CARBON	8.2K JA 1/6W 33K JA 1/6W	1	CA952	620 187 8912	Connector 5P As	sy	1
R630	401 026 4605	CARBON	33K JA 1/6W	1	CN951	620 187 7021	Plug 3P		1
R631	401 025 1605	CARBON	1.5K JA 1/6W	1	VR951 IC951	620 188 5774	Motor Volume (B	-20kΩx2)	1
R632	401 025 1605	CARBON	1.5K JA 1/6W	i	D951	409 114 4803 407 050 3706	IC LB1641	74471/ 57	1
R633	401 026 6609	CARBON	390 JA 1/6W	i	C951	403 057 0908	ZENER DIODE G		1
R634	401 026 6609	CARBON	390 JA 1/6W	i	C952	403 057 3602	POLYESTER POLYESTER	0.01U K 50V 0.1U K 50V	1
R635	401 027 8602	CARBON	8.2K JA 1/6W	i	R951	402 016 4506	FUSIBLE RES	10 J- 1/2W	1
R636	401 027 8602	CARBON	8.2K JA 1/6W	1	R952	401 013 5301	CARBON	1.2K JA 1/4W	i
R637	401 025 8208	CARBON	22K JA 1/6W	1	R953	401 025 7805	CARBON	2.2K JA 1/6W	1
R638	401 025 8208	CARBON	22K JA 1/6W	1	R954	401 025 7805	CARBON	2.2K JA 1/6W	· 1
R639	401 025 1605	CARBON	1.5K JA 1/6W	1					
R640	401 025 1605	CARBON	1.5K JA 1/6W	1	LED P.	C.B. ASSY			
R641	401 026 9907	CARBON	4.7K JA 1/6W	1	67	620 187 3399	LED P.C.B. Assy		1
R642	401 026 9907	CARBON	4.7K JA 1/6W	1		620 051 9748	Spacer LED		1
R643 R644	401 024 7707	CARBON	100K JA 1/6W	1	D981	407 062 9307	LED SLB-55VR3		1
R645	401 024 7707 401 024 7707	CARBON	100K JA 1/6W	1					
R646	401 024 7707	CARBON	100K JA 1/6W	1		ON P.C.B. ASSY			
R647	401 026 9907	CARBON	100K JA 1/6W	1	68	620 187 3412	Remocon P.C.B.	Assy	1
R648	401 026 9907	CARBON CARBON	4.7K JA 1/6W 4.7K JA 1/6W	1		620 187 0220	Cover Shield		1
R649	401 024 7707	CARBON	100K JA 1/6W	1	04004	620 190 0538	Cover Shield (Bot		1
R650	401 024 7707	CARBON	100K JA 1/6W	1	CA801	620 187 8905	Connector 3P Ass	;y	1
R653	401 024 7004	CARBON	1K JA 1/6W	1	T801	620 191 6065	Coil 38kHz		1
R654	401 024 7004	CARBON	1K JA 1/6W	1	0r	620 029 1576	Coil 38kHz		1
R655	401 012 4107	CARBON	100 JA 1/4W	1	IC801 Q801	409 072 8004	IC UPC1473HA		1
or	401 012 4503	CARBON	100 JA 1/4W	i	D801	405 019 2708 407 065 0905	TR 2SC536-F-NP	0 5040 4	1
R656	401 012 4107	CARBON	100 JA 1/4W	i	C801	403 039 3200	PHOTO DIODE SF ELECT		1
or	401 012 4503	CARBON	100 JA 1/4W	i	C802	403 042 0807	ELECT	47U M 6.3V	1
R657	401 024 7004	CARBON	1K JA 1/6W	i	C803	403 067 7201		10U M 16V 033U J 50V	1
				•	C804	403 040 3008	ELECT 0.	22U M 10V	1
	ION P.C.B. ASSY	•			C805	403 042 0807	ELECT	10U M 16V	1
64	620 187 3337	Function P.C.	B. Assy	1	R801	401 024 6700	CARBON	100 JA 1/6W	1
04554	620 186 4199	LED Holder		1	R802	401 024 7004	CARBON	1K JA 1/6W	i
CA551	620 188 5538	Connector 7P		1	R803	401 027 0309	CARBON	47K JA 1/6W	1
SW551	620 015 1917		itch 6 mm (Tape)	1	R804	401 025 7102	CARBON	22 JA 1/6W	1
SW552 SW553	620 015 1917	Keyboard Sw	itch 6 mm (Tuner)	1	R805	401 024 7707	CARBON	100K JA 1/6W	1
SW554	620 015 1917 620 015 1917		itch 6 mm (CD)	1	R806	401 024 7400	CARBON	10K JA 1/6W	1
SW555	620 015 1917		itch 6 mm (AUX)	1					
D551	407 108 1203	LED SLB-72V	itch 6 mm (Phono)	1		P.C.B. ASSY			
D552	407 108 1203		R3HLF (Tuner)	1	69	620 187 9193	Tuner P.C.B. Assy		1
D553	407 108 1203	LED SLB-72V	R3HLF (CD)	1		620 080 3595	FM Frontend P.C.I	3. Assy	1
D554	407 108 1203	LED SLB-72VI	R3HLF (ALIX)	1	·				_
D555	407 108 1203	LED SLB-72VI	R3HLF (Phono)	1	(Comp	onent parts use	d in Front End are n	ot serviceable an	d avail-
R551	401 025 7805	CARBON	2.2K JA 1/6W	i	able.)				
				•					
	HONE P.C.B. AS					620 017 0734	Protector ICP-5		1
65	620 187 3351	Headphone P		1		620 017 2738	Fuse Clip		2
C 4 001	620 017 3322	Jack 7P Black		1		620 022 2921	ANT Terminal 3P		1
CA901	620 187 8929	Connector 5P		1		620 022 3492	Terminal Lug		1
CA902	620 187 8936	Connector 5P		1		620 022 3508	Terminal Lug		1
SW901 SW902	620 016 6935	Push Switch 2		1	Δ	423 005 0507	FUSE 250V T1.0		1
C901	620 016 6935	Push Switch 2		1		411 020 8004	SCR S-TPG BRZ 32	K8	1
C902	403 018 8509	CERAMIC	220P K 50V	1		620 031 4763	Wire Wrap Termin	al	11
R901	403 018 8509	CERAMIC	220P K 50V	1		620 053 8848	Plate Heat Sink		1
R902	402 040 4909 402 040 4909	OXIDE-MT	270 JB 1/2W	1		620 053 9821	Reflector		1
R903	402 040 5005	OXIDE-MT	270 JB 1/2W	1		620 191 0414	Filter		1
R904	402 040 5005	OXIDE-MT	150 JB 1/2W	1		620 190 0521	Cover Shield		1
11004	402 040 3003	OXIDE-MT	150 JB 1/2W	1		620 189 5872	Plate Sever		1
HEADPH	ONE P.C.B. ASS	SV (4.001)			011404	620 055 2592	Jumper		1
65	620 192 4602	Headphone P.	CR Assu	4	CN101	620 182 8955	Plug 3P		1
	620 017 3322	Jack 7P Black		1	CN102	620 020 3753	Socket Jumper 7P		1
CA901	620 187 8929	Connector 5P			CN103	620 182 8993	Plug 4P		1
CA902	620 187 8936	Connector 5P		1	F101	620 026 9353	FTZ Antenna Filter		1
SW901	620 016 6935	Push Switch 2		1	F103	620 014 5664	Ceramic Filter		1
SW902	620 016 6935	Push Switch 2		1	F104	620 014 5664	Ceramic Filter	,	1
C901	403 018 8509	CERAMIC	220P K 50V	1	F105 F106	620 014 5862	Ceramic Filter 450I	•	1
C902	403 018 8509	CERAMIC	220P K 50V	†	F106	620 026 4396	Anti Birdie Filter		1
R901	402 040 4909	OXIDE-MT	270 JB 1/2W	i	or	620 026 4754 620 192 3377	Low Pass Filter		1
R902	402 040 4909	OXIDE-MT	270 JB 1/2W	i	F108	620 026 4754	Low Pass Filter Low Pass Filter		1
				•			1 doo 1 11101		1

Color	Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Descr	iption		Q'ty
The company of the					If nec	essary renlace	hoth Diode D10	11 D102 (SV	C321) too	aether with
P1012 620 008 1333 Potentiometer (B-100kg) 1					new	ones which have	the equivalent	characteri	Stics.	Jeiner with
P102 620 069 1377 Potentiometer (#-100ka) 1					<u> </u>					
Pi001 G2000 95724 Trimmer Condenser 1					D101	407 000 4708	VARACTOR	DLSVC3210	:-2	1
Trimmer Condenser										
1				1						
Description									-2	1
17102 620029 31982 LW Antenna Coil 1 D109 407 008 0405 D10DE GMB01-BT 1 T100 620 1927474 D08 COIL MW 1 D109 407 008 0405 D10DE SISS3 1 T 1 T100 620 1927474 D08 COIL MW 1 D109 407 008 0405 D10DE SISS3 1 T 1 T100 620 1927474 D08 COIL MW 1 D109 407 008 0405 D10DE SISS3 1 T 1 T100 620 1927481 D08 COIL MW 1 D109 407 008 0405 D10DE SISS3 1 T 1 T100 620 1927481 D08 COIL MW 1 D109 407 008 0405 D10DE SISS3 1 T 1 T100 620 1927481 D08 COIL LW 1 D110 407 004 9105 D10DE D10DE D10DE D10DE D10DE SISS3 1 T 1 T100 620 1927481 D08 COIL LW 1 D111 407 004 9105 D10DE										
Color				1						•
101 620 1927 7749 OSC COII MW 1 D109				<u> </u>						
CF CF CF CF CF CF CF CF				•						
Times	or	620 028 7784		1						
or 820.028 7845 OSC.Coil LW 1 D111 407 004 9105 D100E DSF10C-BT 1 1 T105 620 027 7280 AM IFT 1 D113 407 004 9105 D100E DSF10C-BT 1 1 D116 620 027 7280 FF AM IFT 1 D118 407 004 9105 D100E DSF10C-BT 1 1 D116 620 027 7280 FF AM IFT 1 D118 407 008 9405 D100E DSF10C-BT 1 1 D116 620 027 7280 FF AM IFT AM DET 18 1 D116 407 008 9405 D100E DSF10C-BT 1 1 D117 720 727 7280 FF AM IFT AM DET 18 1 D116 407 008 9405 D100E DSF10C-BT 1 1 D117 720 7280 PF AM IFT AM DET 18 1 D120 407 008 9405 D100E DSF10C-BT 1 D120 409 9405 PSF10C-BT 1 D120 409 9405 PSF10C-B				1			DIODE 1885	3		1
or 820 928 7821 OSC Coll LW 1 D1194 407 004 9105 D100E DSF10C-BT 1 1 1 1 1 1 1 1 1 4 47 004 9105 D100E DSF10C-BT 1 1 1 1 1 1 1 1 1 4 47 004 9105 D100E DSF10C-BT 1 1 1 1 1 1 1 1 1 4 47 005 9805 D100E DSF10C-BT 1 1 1 1 1 1 1 1 1 4 47 005 9805 D100E DSF10C-BT 1 1 1 1 1 1 1 1 1 1 1 1 1 4 47 005 9805 D100E DSF10C-BT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1						
T105 62027 7206 AM IFT 1 D113 407 003 9105 D10DE DSFICE-BT 1 1 D116 620 227 7046 IFT AM 1 D114 407 003 9305 D10DE DSF42-BT 1 1 D107 620 227 7046 IFT AM 1 D114 407 003 9305 D10DE DSF42-BT 1 1 D107 620 227 7046 IFT AM 1 D114 407 003 9405 D10DE DSF42-BT 1 1 D107 620 227 7046 IFT AM 1 D114 407 003 9405 D10DE DSF42-BT 1 1 D107 620 227 7046 IFT AM 1 D114 407 003 9405 D10DE DSF42-BT 1 1 D107 620 9405 D10DE DSF42-BT 1 1 D107 620 9405 D10DE GMB01-BT 1 D107 620 9405 P107 9405				1						
or 820 027 7006 FFT AM				1						•
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X101 \$20 014 8258				1						
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or 820 007 1397 Crystal 7.2MHz 1]						
or 620 007 1321 Crystal 7.2MHz 1 C101 403 028 5408 CERAMIC 33° K 500 1 1 C101 410 014 9007 225 Crystal 7.2MHz 1 C102 403 028 1700 CERAMIC 0.01° L 2 500 1 1 C1010 410 014 9007 1005 IC C1031°PP 1 C104 403 074 2701 CERAMIC 0.04°L 2 500 1 1 C103 409 073 9050 IC LA1266 1 C104 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C104 409 077 2007 IC C1031°PP 1 C104 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C104 409 077 2007 IC C104 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C104 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C104 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C105 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C105 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C105 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C105 409 074 200 IC LA3567 1 C108 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C105 409 074 200 IC LA5567 1 C108 409 074 2701 CERAMIC 0.04°L 2 500 1 1 C105 409 074 200 IC LA5567 1 R 25010 12°H-SPA-AC 1 C110 403 008 5204 CERAMIC 0.04°L 2 500 1 1 C103 409 074 200 IC CERAMIC 0.04°L 2 500 1 1 C103 409 074 200 IC CERAMIC 0.04°L 2 500 1 1 C103 409 074 200 IC CERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 08 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC 0.04°L 2 500 1 1 C104 409 09 200 EERAMIC				!						
or by 100 mm 620 007 3226 Crystal 7.2MHz 1 C102 403 023 1700 CERAMIC 0.10 Z 50V 1 10101 410 014 9807 16 TSE2039AF-220 1 C103 403 072 1005 10 TC 1017 2 50V 1 10103 409 073 9005 16 LA1266 1 C104 403 074 2701 CERAMIC 0.047U Z 50V 1 10104 409 077 8005 16 LA1400 1 C107 403 074 2701 CERAMIC 0.047U Z 50V 1 10105 409 077 8005 16 LA3400 1 C108 403 074 2701 CERAMIC 0.047U Z 50V 1 10105 409 077 8005 16 LA3400 TR. ASSON-A 1 C108 403 074 2701 CERAMIC 0.047U Z 50V 1 10102 405 019 3804 TR. ASSOS-G-NP-AA 1 C111 403 074 2701 CERAMIC 0.071 U 2 50V 1 10104 405 019 3804 TR. 2SCS38-F-NP-AA 1 C113 403 042 300 CE				i					K 50V	
	or	620 007 3226	Crystal 7.2MHz	1						
10-103 409 073 9505 C LA 1288				1	C103	403 069 8404	CERAMIC	0.01U	Z 50V	1
ICTOID 409 017 0803				•						
				· · · · · · · · · · · · · · · · · · ·						
1010				·						
0.102 405 021 0907 TR 25D 1012-H-SPA-AC 1 C110 403 089 8204 CERAMIC 0.071 Z 50V 1 1 1 1 1 1 1 1 1										
Q103 405 019 2708 TR 2SC538-F-NP-AA 1 C111 403 098 2404 CERAMIC 0.01U Z 50V 1 0104 405 019 3804 TR 2SC538-F-NP-AA 1 C113 403 096 1209 ELECT 2.2U M 50V 1 0104 405 019 2708 TR 2SC538-F-NP-AA 1 C113 403 004 200 ELECT 1.2U M 50V 1 0105 405 019 2708 TR 2SC538-F-NP-AA 1 C116 403 074 2701 CERAMIC 0.047U Z 50V 1 0106 405 019 2708 TR 2SC538-F-NP-AA 1 C116 403 074 2701 CERAMIC 0.047U Z 50V 1 0106 405 019 3804 TR 2SC538-F-NP-AA 1 C117 403 089 804 CERAMIC 0.01U Z 50V 1 0107 405 004 5602 TR 2SA608-F-NP-AA 1 C119 403 089 804 CERAMIC 0.01U Z 50V 1 0108 405 019 3804 TR 2SA608-F-NP-AA 1 C121 403 089 804 CER				•						
0.104	Q103		TR 2SC536-F-NP-AA	1	C111					
or 405 019 3804 TR 25C536-G-NP-AA 1 C114 403 042 0302 ELECT 10U M 16V 1 0105 405 019 2708 TR 25C536-F-NP-AA 1 C115 403 074 2701 CERAMIC 0.047U Z 50V 1 0106 405 019 3804 TR 25C538-F-NP-AA 1 C115 403 074 2701 CERAMIC 0.047U Z 50V 1 0106 405 019 3804 TR 25C538-F-NP-AA 1 C118 403 084 4000 CERAMIC 0.047U Z 50V 1 0107 405 019 3804 TR 25C538-F-NP-AA 1 C118 403 089 8404 CERAMIC 0.01U Z 50V 1 0107 405 019 3804 TR 25C538-G-NP-AA 1 C121 403 089 8404 CERAMIC 0.01U Z 50V 1 0108 405 019 3804 TR 25C538-G-NP-AA 1 C121 403 089 8404 CERAMIC 0.01U Z 50V 1 0109 405 004 5004 TR 25C538-G-NP-AA 1 C122 403 098 8404 CERAMIC										1
Order AdS 019 2708										
or 405 019 3804 TR 2SCS36-G-NP-AA 1 C116 403 074 2701 CERAMIC 0.047U Z 50V 1 0106 405 019 2708 TR 2SCS36-F-NP-AA 1 C117 403 084 840 CERAMIC 0.01U Z 50V 1 0107 405 004 5002 TR 2SA808-F-NP-AA 1 C118 403 004 4502 CERAMIC 0.01U Z 50V 1 0108 405 004 5004 TR 2SA808-F-NP-AA 1 C12 403 008 8404 CERAMIC 0.01U Z 50V 1 0108 405 019 2708 TR 2SA808-F-NP-AA 1 C122 403 008 8404 CERAMIC 500V 1 2 50V 1 0109 405 004 5004 TR 2SA808-F-NP-AA 1 C122 403 008 8404 CERAMIC 0.01U Z 50V 1 0109 405 004 5004 TR 2SA808-F-NP-AA 1 C124 403 008 8404 CERAMIC 0.01U Z 50V 1 0110 <t< td=""><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				•						
0106 405 019 2708 TR 2SCS36-F-NP-AA 1 0117 403 089 8404 CERAMIC 0.01U Z 50V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							_			
or 405 019 3804 TR 2SC536-G-NP-AA 1 C118 403 044 0300 ELECT 47U M 16V 1 or 405 004 5004 5002 TR 2SA608-G-NP TR 2SA608-G-NP 1 C119 403 089 8404 CERAMIC 0,01U Z 50V 1 or 405 004 5004 TR 2SA608-G-NP 1 C120 403 049 1809 ELECT 1U M 50V 1 Q108 405 019 2708 TR 2SC536-G-NP-AA 1 C121 403 089 8404 CERAMIC 0,01U Z 50V 1 Q109 405 004 5004 TR 2SA608-G-NP-AA 1 C122 403 069 8404 CERAMIC 0,01U Z 50V 1 Q109 405 004 5004 TR 2SA608-G-NP-AA 1 C123 403 069 8404 CERAMIC 0,01U Z 50V 1 Q100 405 004 5004 TR 2SA608-G-NP-AA 1 C124 403 069 7706 ELECT 3,3U M 50V 1 Q110 405 019 2708 TR 2SC536-G-NP-AA 1 C125 403 069 8404 CERAMIC 0,01U Z 50V 1 Q110 405 019 2708 TR 2SC536-G-NP-AA 1 C126 403 069 8404 CERAMIC 0,01U Z 50V 1 Q111 405 019 2708 TR 2SC536-G-NP-AA 1 C126 403 069 8404 CERAMIC 0,01U Z 50V 1 Q112 405 019 3804 TR 2SC366-G-NP-AA 1 C127 403 047 1502 ELECT 4,7U M 25V 1 Q112 405 019 3804 TR 2SC366-G-NP-AA 1 C128 403 026 5408 CERAMIC 4,7U M 25V 1 Q112 405 019 3804 TR 2SC366-G-NP-AA 1 C139 403 047 1502 ELECT 4,7U M 25V 1 Q113 405 019 3804 TR 2SC366-G										
or 405 004 5004 TR 2SA608-G-NP 1 C120 403 049 1509 ELECT 10 M 50V 1 01 08 405 019 2708 TR 2SC536-F-NP-AA 1 C121 403 029 0509 CERAMIC 0.010 Z 50V 1 01 09 405 019 3804 TR 2SC368-F-NP-AA 1 C122 403 029 0509 CERAMIC 0.010 Z 50V 1 01 09 405 004 5004 TR 2SA608-F-NP-AA 1 C122 403 059 7706 ELECT 3.3U M 50V 1 01 01 405 019 2708 TR 2SC536-F-NP-AA 1 C126 403 089 404 CERAMIC 0.01U Z 50V 1 01 04 05 019 3804 TR 2SC536-F-NP-AA 1 C126 403 089 4804 CERAMIC 0.01U Z 50V 1 01 04 50 19 3804 TR 2SC536-F-NP-AA 1 C127 403 047 1502 ELECT 1U M 50V 1 01 11 405 019 3804 TR 2SC536-F-NP-AA 1 C128 403 047 1502 ELECT 4.7U M 25V			TR 2SC536-G-NP-AA	1	C118					
0108										
or 405 019 3804 TR 2SC536-G-NP-AA 1 C122 403 029 0509 CERAMIC 560P K 50V 1 Q109 405 004 4502 TR 2SA608-F-NP-AA 1 C123 403 089 8404 CERAMIC 0.01U Z 50V 1 Q110 405 019 2708 TR 2SA608-G-NP-AA 1 C125 403 069 8404 CERAMIC 0.01U Z 50V 1 Q110 405 019 3804 TR 2SC536-F-NP-AA 1 C125 403 069 8404 CERAMIC 0.01U Z 50V 1 Q111 405 019 2708 TR 2SC536-F-NP-AA 1 C126 403 069 8404 CERAMIC 0.01U Z 50V 1 Q111 405 019 3804 TR 2SC536-F-NP-AA 1 C128 403 047 1502 ELECT 4.7U M 25V 1 Q112 405 004 4502 TR 2SA608-F-NP-AA 1 C128 403 047 1502 ELECT 4.7U M 25V 1 Q113 405 021 0600										
1010										
or 405 004 5004 TR 2SA608-G-NP 1 C124 403 050 7706 ELECT 3.30 M 50V 1 Q110 405 019 2708 TR 2SC536-F-NP-AA 1 C126 403 069 8404 CERAMIC 0.01U Z 50V 1 Q111 405 019 2708 TR 2SC536-G-NP-AA 1 C126 403 049 1609 ELECT 1.U M 50V 1 Q111 405 019 2708 TR 2SC536-G-NP-AA 1 C127 403 047 1502 ELECT 4.7U M 25V 1 Q112 405 004 4502 TR 2SA608-F-NP-AA 1 C129 403 047 1502 ELECT 4.7U M 25V 1 Q113 405 004 4502 TR 2SA608-G-NP 1 C130 403 069 8404 CERAMIC 0.01U Z 50V 1 Q113 405 021 0204 TR 2SD1012-G-SPA-AC 1 C131 403 018 4204 CERAMIC 0.01U Z 50V 1 Q114 405 021 0600 TR 2SD1012-G-SPA-AC 1 C132 403 018 4204 CERAMIC										
OTTOOLOGY COLOR	or			i						
O111 405 019 2708 TR 2SC536-F-NP-AA 1 C127 403 047 1502 ELECT 4.7U M 25V 1 or 405 019 3804 TR 2SC536-G-NP-AA 1 C128 403 047 1502 ELECT 4.7U M 25V 1 or 405 004 5004 TR 2SA608-F-NP-AA 1 C129 403 047 1502 ELECT 4.7U M 25V 1 O113 405 021 0204 TR 2SA608-G-NP 1 C130 403 068 8404 CERAMIC 0.01U Z 50V 1 O113 405 021 0204 TR 2SD1012-G-SPA-AC 1 C132 403 018 4204 CERAMIC 22P K 50V 1 O114 405 021 0204 TR 2SD1012-G-SPA-AC 1 C134 403 088 4104 STYRENE 430P J 50V 1 O115 405 085 5890 TR 2SK246-Y1 1 C134 403 074 2701 CERAMIC 0.047U Z 50V 1 O116 405 085 5890 TR 2SK246-Y2 1 C136 403 074 2701 CERAMIC	Q110			1						
or 405 019 3804 TR 2SC536-G-NP-AA 1 C128 403 026 5408 CERAMIC 47P K 50V 1 Q112 405 004 4502 TR 2SA608-F-NP-AA 1 C129 403 047 1502 ELECT 4.7U M 25V 1 Q113 405 021 0204 TR 2SA608-F-NP-AA 1 C130 403 086 8404 CERAMIC 0.01U Z 50V 1 Q113 405 021 0204 TR 2SD1012-F-SPA-AC 1 C131 403 031 0306 CERAMIC 68P K 50V 1 Q114 405 021 0600 TR 2SD1012-F-SPA-AC 1 C132 403 018 4204 CERAMIC 02P K 50V 1 Q114 405 021 0600 TR 2SD1012-F-SPA-AC 1 C133 403 088 4104 CERAMIC 0.01U Z 50V 1 Q115 405 021 0600 TR 2SK246-Y1 1 C134 403 069 8404 CERAMIC 0.01U Z 50V 1 Q115 405 021 0600 TR 2SK246-Y2 1 C136 403 088 1103 STYRENE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>										1
Q112 405 004 4502 TR 2SA608-F-NP-AA 1 C129 403 047 1502 ELECT 4.7U M 25V 1 or 405 004 5004 TR 2SA608-G-NP 1 C130 403 069 8404 CERAMIC 0.01U Z 50V 1 or 405 021 0600 TR 2SD1012-F-SPA-AC 1 C131 403 031 3036 CERAMIC 22P K 50V 1 Q114 405 021 0204 TR 2SD1012-G-SPA-AC 1 C133 403 088 4104 STYRENE 430P J 50V 1 Q114 405 021 0600 TR 2SD1012-G-SPA-AC 1 C133 403 088 4104 STYRENE 430P J 50V 1 Q115 405 085 5900 TR 2SD1012-G-SPA-AC 1 C134 403 069 8404 CERAMIC 0.01U Z 50V 1 Q115 405 085 5900 TR 2SK246-Y2 1 C136 403 074 2701 CERAMIC 0.04TU Z 50V 1 Q116 405 016 9502 TR 2SC336-G-NP-AA 1 C137 403 068 8404 CERAMI				•						
or 405 004 5004 TR 2SA608-G-NP 1 C130 403 069 8404 CERAMIC 0.01U Z 50V 1 Q113 405 021 0204 TR 2SD1012-F-SPA-AC 1 C131 403 031 0306 CERAMIC 68P K 50V 1 0r 405 021 0600 TR 2SD1012-F-SPA-AC 1 C131 403 018 4204 CERAMIC 22P K 50V 1 0r144 405 021 0600 TR 2SD1012-F-SPA-AC 1 C133 403 088 4104 STYRENE 430P J 50V 1 0r 405 021 0600 TR 2SD1012-G-SPA-AC 1 C134 403 098 8404 CERAMIC 0.01U Z 50V 1 0r 405 085 5900 TR 2SK246-Y1 1 C136 403 074 2701 CERAMIC 0.047U Z 50V 1 0r 405 016 9502 TR 2SC3069 1 C137 403 088 1103 STYRENE 330P J 50V 1 0r117 405 019 3804 TR 2SC3608-F-NP-AA 1 C137 403 074 2701 CERAMIC										
Q113 405 021 0204 TR 2SD1012-F-SPA-AC 1 C131 403 031 0306 CERAMIC 68P K 50V 1 or 405 021 0600 TR 2SD1012-G-SPA-AC 1 C132 403 018 4204 CERAMIC 22P K 50V 1 0114 405 021 0204 TR 2SD1012-G-SPA-AC 1 C133 403 088 4104 STYRENE 430P J 50V 1 0r 405 021 0600 TR 2SD1012-G-SPA-AC 1 C134 403 089 8404 CERAMIC 0.01U Z 50V 1 0115 405 085 5800 TR 2SK246-Y1 1 C135 403 074 2701 CERAMIC 0.047U Z 50V 1 0r 405 085 5801 TR 2SK246-Y2 1 C136 403 088 1103 STYRENE 330P J 50V 1 0r116 405 016 9502 TR 2SC3069 1 C137 403 088 1103 STYRENE 330P J 50V 1 0117 405 019 3804 TR 2SC368-F-NP-AA 1 C138 403 074 2701 CERAMIC				· · · · · · · · · · · · · · · · · · ·						
or 405 021 0600 TR 2SD1012-G-SPA-AC 1 C132 403 018 4204 CERAMIC 22P K 50V 1 Q114 405 021 0600 TR 2SD1012-F-SPA-AC 1 C133 403 088 4104 STYRENE 430 P J 50V 1 Q115 405 021 0600 TR 2SD1012-G-SPA-AC 1 C134 403 088 4104 STYRENE 430 P J 50V 1 Q115 405 085 5900 TR 2SK246-Y1 1 C135 403 074 2701 CERAMIC 0.047U Z 50V 1 or 405 085 5901 TR 2SK246-Y2 1 C136 403 088 1103 STYRENE 330P J 50V 1 Q116 405 016 5902 TR 2SC3069 1 C137 403 089 8404 CERAMIC 0.01U Z 50V 1 Q117 405 019 3804 TR 2SC336-G-NP-AA 1 C138 403 074 2701 CERAMIC 0.01U X 50V 1 Q118 405 004 5002 TR 2SA608-F-NP-AA 1 C138 403 057 0908 POLYESTER <td></td>										
or 405 021 0600 TR 2SD1012-G-SPA-AC 1 C134 403 069 8404 CERAMIC 0.01U Z 50V 1 Q115 405 085 5900 TR 2SK246-Y1 1 C135 403 074 2701 CERAMIC 0.047U Z 50V 1 or 405 085 5801 TR 2SK246-Y2 1 C136 403 088 1103 STYRENE 330P J 50V 1 Q116 405 016 9502 TR 2SC3069 1 C137 403 069 8404 CERAMIC 0.047U Z 50V 1 Q117 405 019 2708 TR 2SC536-F-NP-AA 1 C138 403 074 2701 CERAMIC 0.047U Z 50V 1 Q117 405 019 3804 TR 2SC536-G-NP-AA 1 C138 403 077 9908 POLYESTER 0.01U K 50V 1 Q118 405 004 5004 TR 2SA608-F-NP-AA 1 C140 403 068 8700 POLYESTER 0.03U K 50V 1 Q118 405 016 8066 TR 2SC363-G-NP 1 C141 403 069 8700 POLYESTER <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				1						
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or 405 085 5801 TR 2SK246-Y2 1 C136 403 088 1103 STYRENE 330P J 50V 1 Q116 405 016 9502 TR 2SC3069 1 C137 403 069 8404 CERAMIC 0.01U Z 50V 1 Q117 405 019 2708 TR 2SC536-F-NP-AA 1 C138 403 074 2701 CERAMIC 0.047U Z 50V 1 Or 405 019 3804 TR 2SC536-G-NP-AA 1 C139 403 057 0908 POLYESTER 0.01U K 50V 1 Q118 405 004 4502 TR 2SC4608-F-NP-AA 1 C140 403 060 8700 POLYESTER 0.03U K 50V 1 or 405 004 5004 TR 2SC4608-G-NP 1 C141 403 039 2906 ELECT 47U M 6.3V 1 Q119 405 016 0806 TR 2SC2839-E 1 C142 403 061 8709 POLYESTER 4700P K 50V 1 Q120 405 016 1001 TR 2SC2839-F 1 C142 403 061 8709 POLYESTER 4700P				•						
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Q126						403 057 0908	POLYESTER	0.01U	K 50V	
Q127 405 003 7702 TR 2SA1346 1 C151 403 081 8505 POLYPRO 390P J 100V 1 C152 403 081 8505 POLYPRO 390P J 100V 1				•						
C152 403 081 8505 POLYPRO 390P J 100V 1										
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C155	art No.	Part No.	Descript	ion		Q′ty	Ref. No.	Part No.	Des	cription	Q′ty
C156		403 050 7706	ELECT	3.3U		1	R138	401 024 7400	CARBON	10K JA 1/6W	1
C157		403 062 5608	POLYESTER POLYESTER	5600P 5600P	K 50V K 50V	1	R139	401 012 4503	CARBON	100 JA 1/4W	1
C159		403 048 7602	ELECT	0.47U	M 50V	1	R140 R141	401 026 9907 401 024 7004	CARBON	4.7K JA 1/6W	1
C160		403 049 1609	ELECT	10	M 50V	i	R142	401 024 7707	CARBON CARBON	1K JA 1/6W	1
C161		403 026 5408	CERAMIC	47P	K 50V	i	R143	401 026 9907	CARBON	100K JA 1/6W	1
C162	069 8404	403 069 8404	CERAMIC	0.01U	Z 50V	i	R144	401 025 1902	CARBON	4.7K JA 1/6W 15K JA 1/6W	1
C163		403 069 8404	CERAMIC	0.01U	Z 50V	1	R145	401 012 8105	CARBON	100K JA 1/4W	1
C164		403 069 8404	CERAMIC	0.01U	Z 50V	1	R146	401 025 8208	CARBON	22K JA 1/6W	1
C165		403 002 2902	CERAMIC	0.01U	M 25V	1	R147	401 027 2600	CARBON	5.6K JA 1/6W	1
C166		403 057 0908	POLYESTER	0.01U	K 50V	1	R148	401 016 4806	CARBON	22K JA 1/4W	1
C167			ELECT	100U	M 6.3V	1	R149	401 012 8105	CARBON	100K JA 1/4W	1
C168			CERAMIC ELECT	0.01U	Z 50V	1	R150	401 016 1102	CARBON	22 JA 1/4W	1
C169			CERAMIC	47U 1000P	M 6.3V K 50V	1	R151	401 025 0905	CARBON	130K JA 1/6W	1
C170		103 049 1609	ELECT	1U	M 50V	1	R152	401 025 0905	CARBON	130K JA 1/6W	1
C171		103 044 0300	ELECT	47U	M 16V	1	R153 R154	401 026 4308	CARBON	3.3K JA 1/6W	1
C173		103 042 0302	ELECT		M 16V	1	R155	401 026 4308 401 018 3807	CARBON	3.3K JA 1/6W	1
or	038 2402	103 038 2402	ELECT	100U	M 6.3V	i	R156	401 026 4308	CARBON CARBON	3.3K JA 1/4W 3.3K JA 1/6W	1
C174		103 022 5907	CERAMIC	33P	J 50V	1	R157	401 024 7004	CARBON	1K JA 1/6W	1
or 403 017 C175 403 069 C176 403 039 C177 403 040 C178 403 069 C180 403 069 C181 403 069 C182 403 069 C183 403 049 C184 403 049 C185 403 049 C186 403 049 C201 403 009 C202 403 009 C203 403 009 C204 403 009 C205 403 009 C206 403 009 C207 403 009 C208 403 009 C209 403 009 C206 403 009 C207 403 009 C208 403 009 R101 401 024 R102 401 024 R103 401 024 R104 401 024 R105 401 024 R110 401 024 R111 401 025	017 7404	103 017 7404	CERAMIC	22P	J 50V	i	R158	401 024 7004	CARBON	1K JA 1/6W	1
C175	022 5907	103 022 5907	CERAMIC	33P	J 50V	1	R159	401 027 2600	CARBON	5.6K JA 1/6W	1
C176		103 017 7404	CERAMIC	22P	J 50V	1	R160	401 027 2600	CARBON	5.6K JA 1/6W	1
C177		103 069 8404	CERAMIC	0.01U	Z 50V	1	R161	401 025 0004	CARBON	120K JA 1/6W	1
C178		03 039 7802	ELECT		M 10V	1	R162	401 025 0004	CARBON	120K JA 1/6W	1
C179			ELECT		M 10V	1	R163	401 027 5502	CARBON	6.8K JA 1/6W	1
C180			CERAMIC	0.047U	Z 50V	1	R164	401 025 7805	CARBON	2.2K JA 1/6W	1
C181			CERAMIC CERAMIC	0.01U	Z 50V	1	R165	401 027 5908	CARBON	68K JA 1/6W	1
C182			CERAMIC	0.01U 0.01U	Z 50V Z 50V]	R166	401 024 7400	CARBON	10K JA 1/6W	1
C183		03 069 8404	CERAMIC		Z 50V Z 50V	1	R167	401 024 7400	CARBON	10K JA 1/6W	1
C184		03 045 2808	ELECT		M 25V	1 1	R168	401 024 7707	CARBON	100K JA 1/6W	1
C185		03 049 1609	ELECT		M 50V	;	R169 R170	401 012 8105 401 027 0309	CARBON	100K JA 1/4W	1
C201		03 040 2704	ELECT		M 10V	i	R171	401 027 0309	CARBON CARBON	47K JA 1/6W	1
C202	042 0302	03 042 0302	ELECT		M 16V	i	R172	401 026 4308	CARBON	10K JA 1/6W 3.3K JA 1/6W	1
C203	009 8105	03 009 8105	CERAMIC		K 50V	1	R173	401 024 7004	CARBON	1K JA 1/6W	1
C204		03 009 8105	CERAMIC	100P	K 50V	1	R174	401 012 7009	CARBON	10K JA 1/4W	1
C205		03 009 8105	CERAMIC		K 50V	1	R175	401 024 7004	CARBON	1K JA 1/6W	i
C206		03 009 8105	CERAMIC		K 50V	1	R176	401 024 7004	CARBON	1K JA 1/6W	i
C207			CERAMIC		K 50V	1	R177	401 012 5708	CARBON	1K JA 1/4W	1
C208			CERAMIC		K 50V	1	R178	401 012 5708	CARBON	1K JA 1/4W	1
R101			CERAMIC CERAMIC		K 50V	1	R179	401 017 1804	CARBON	2.7K JA 1/4W	1
R103			CARBON		K 50V A 1/2W	1	R180	401 018 3807	CARBON	3.3K JA 1/4W	1
R104		01 016 1102	CARBON		A 1/4W	<u> </u>	R181 R182	401 019 9600	CARBON	47 JA 1/4W	1
R106		01 024 8001	CARBON		A 1/6W	1	R183	401 017 1804 401 024 7400	CARBON CARBON	2.7K JA 1/4W	1
R107	024 7004	01 024 7004	CARBON		A 1/6W	i	R184	401 027 5205	CARBON	10K JA 1/6W 680 JA 1/6W	1
R108	024 8001	01 024 8001	CARBON	1M J	A 1/6W	1	R185	401 024 7400	CARBON	10K JA 1/6W	1
R109		01 026 6609	CARBON		A 1/6W	1	R186	401 024 7004	CARBON	1K JA 1/6W	i
R110 401 024 7. R111 401 025 7. R1112 401 025 7. R1113 401 026 1. R1113 401 026 1. R1114 401 027 5. R1115 401 026 1. R1116 401 024 7. R1117 401 025 8. R118 401 027 5. R118 401 027 5. R119 401 027 5. R120 401 024 7. R121 401 012 7. R122 401 024 7. R123 401 025 7. R124 401 012 7. R125 401 027 0. R126 401 012 8. R127 401 016 48. R128 401 026 9. R129 401 014 41. R130 401 026 74. R131 401 026 74. R131 401 026 74. R133 401 025 82. R133 401 025 82.			CARBON		A 1/6W	1	R187	401 027 2600	CARBON	5.6K JA 1/6W	i
R111			CARBON		A 1/6W	1	R188	401 024 7400	CARBON	10K JA 1/6W	i
R112 401 025 8 R113 401 016 4 R114 401 027 5 R115 401 026 1 R116 401 025 8 R117 401 025 8 R118 401 027 5 R119 401 027 5 R120 401 024 7 R121 401 012 7 R123 401 025 7 R124 401 012 8 R125 401 027 0 R125 401 026 9 R127 401 016 4 R128 401 026 9 R129 401 026 7 R129 401 026 9 R130 401 027 9 R131 401 026 9 R131 401 026 8 R131 401 026 8			CARBON		A 1/6W	1	R189	401 020 0801	CARBON	470 JA 1/4W	1
R1113 401 016 44 R114 401 027 53 R115 401 026 11 R116 401 024 73 R117 401 025 83 R118 401 027 03 R119 401 027 03 R120 401 024 73 R121 401 012 70 R123 401 025 78 R124 401 018 38 R125 401 027 03 R126 401 012 81 R127 401 016 48 R128 401 026 98 R129 401 014 41 R130 401 026 74 R131 401 026 82 R131 401 026 82 R133 401 025 82 R133 401 024 77			CARBON		A 1/6W	1	R190	401 019 9204	CARBON	47 JA 1/4W	1
R1114 401 027 5 R1115 401 026 16 R1116 401 024 7 R1117 401 025 8 R1118 401 027 0 R119 401 027 0 R120 401 024 7 R121 401 024 7 R122 401 024 7 R123 401 027 0 R124 401 018 36 R125 401 027 0 R126 401 016 48 R127 401 016 48 R128 401 026 9 R129 401 014 41 R130 401 026 74 R131 401 026 74 R131 401 026 74 R133 401 024 77			CARBON		A 1/6W	1	R191	401 024 7004	CARBON	1K JA 1/6W	1
A115 401 026 11 A116 401 024 71 A117 401 025 81 A118 401 027 63 A119 401 027 03 A120 401 024 71 A121 401 024 72 A122 401 024 73 A123 401 025 76 A124 401 018 38 A125 401 027 03 A126 401 012 81 A127 401 016 48 A128 401 026 92 A129 401 014 41 A130 401 026 72 A131 401 026 82 A133 401 025 82 A133 401 024 77			CARBON CARBON		A 1/4W	1	R192	401 027 2600	CARBON	5.6K JA 1/6W	1
R116 401 024 73 R117 401 025 83 R118 401 027 83 R119 401 027 03 R120 401 024 73 R121 401 024 73 R122 401 024 73 R123 401 025 76 R124 401 018 86 R125 401 027 03 R126 401 012 81 R127 401 016 48 R128 401 026 98 R129 401 014 41 R130 401 026 74 R131 401 026 74 R131 401 026 74 R133 401 024 77			CARBON	6.8K J		1	R193	401 012 4503	CARBON	100 JA 1/4W	1
R117 401 025 8 R118 401 027 5 R119 401 027 5 R120 401 024 7 R121 401 024 7 R122 401 024 7 R123 401 025 78 R124 401 018 3 R125 401 027 03 R126 401 012 8 R127 401 016 4 R128 401 026 9 R129 401 014 4 R130 401 026 74 R131 401 026 74 R132 401 025 82 R133 401 024 77			CARBON	2.7K J 100K J		1 1	R194	401 026 4605	CARBON	33K JA 1/6W	1
R118 401 027 55 R119 401 027 05 R1120 401 024 77 R121 401 012 70 R122 401 024 77 R123 401 025 78 R124 401 018 38 R125 401 027 03 R126 401 012 81 R127 401 016 48 R128 401 026 98 R129 401 014 41 R130 401 026 78 R131 401 026 82 R132 401 025 82 R133 401 025 82 R133 401 024 77		.	CARBON		A 1/6W	1	R195	401 018 4903	CARBON	33K JA 1/4W	1
3119 401 027 03 3120 401 024 73 3121 401 012 76 3122 401 025 78 3123 401 025 78 3124 401 027 03 3125 401 027 03 3126 401 012 81 3127 401 016 48 3128 401 026 99 3129 401 014 41 3130 401 027 93 3131 401 025 82 3132 401 025 82 3133 401 024 77		. .	CARBON	6.8K J		1	R196 R197	401 025 8703	CARBON	220K JA 1/6W	1
8120 401 024 77 8121 401 012 77 8122 401 025 78 8123 401 025 78 8124 401 018 38 8125 401 027 03 8126 401 012 81 8127 401 016 48 8129 401 026 98 8129 401 014 41 8130 401 027 90 8131 401 026 74 8133 401 024 77			CARBON		A 1/6W	i	R198	401 024 7707 401 012 7009	CARBON	100K JA 1/6W	1
8122 401 024 77 8123 401 025 78 8124 401 018 38 8125 401 027 03 8126 401 012 81 8127 401 016 48 8128 401 026 98 8129 401 014 41 8130 401 027 90 8131 401 026 74 8133 401 024 77	24 7707	1 024 7707	CARBON	100K J		1	R199	401 012 7009	CARBON CARBON	10K JA 1/4W	1
8123 401 025 78 8124 401 018 38 8125 401 027 03 8126 401 012 81 8127 401 016 48 8128 401 026 98 8129 401 024 41 8130 401 027 90 8131 401 026 74 8132 401 025 82 8133 401 024 77			CARBON		A 1/4W	i	R200	401 012 7009	CARBON	10K JA 1/4W 10K JA 1/4W	1
8124 401 018 38 8125 401 027 03 8126 401 012 81 8127 401 016 48 8128 401 026 98 8129 401 014 41 8130 401 027 90 8131 401 025 82 8133 401 024 77			CARBON	100K J	A 1/6W	1	R201	401 012 7009	CARBON	10K JA 1/4W	1
8125 401 027 03 8126 401 012 81 8127 401 016 48 8128 401 026 99 8129 401 014 41 8130 401 027 90 8131 401 026 74 8132 401 025 82 8133 401 024 77			CARBON	2.2K J	4 1/6W	1	R202	401 012 7009	CARBON	10K JA 1/4W	1
8126 401 012 81 8127 401 016 48 8128 401 026 99 8129 401 014 41 8130 401 027 90 8131 401 026 74 8132 401 025 82 8133 401 024 77			CARBON	3.3K J	4 1/4W	1	R203	401 012 7009	CARBON	10K JA 1/4W	i
8127 401 016 48 1128 401 026 99 1129 401 014 41 1130 401 027 90 1131 401 026 74 1132 401 025 82 1133 401 024 77			CARBON	47K J		1	R204	401 012 7009	CARBON	10K JA 1/4W	i
8128 401 026 99 8129 401 014 41 8130 401 027 90 8131 401 026 74 8132 401 025 82 8133 401 024 77			CARBON	100K J		1	R205	401 012 5708	CARBON	1K JA 1/4W	1
8129 401 014 41 8130 401 027 90 8131 401 026 74 8132 401 025 82 8133 401 024 77			CARBON	22K J		1	R206	401 012 5708	CARBON	1K JA 1/4W	1
1130 401 027 90 1131 401 026 74 1132 401 025 82 1133 401 024 77			CARBON	4.7K J		1	R207	401 012 5708	CARBON	1K JA 1/4W	1
1131 401 026 74 1132 401 025 82 1133 401 024 77			CARBON	1.5K J		1	R208	401 012 5708	CARBON	1K JA 1/4W	1
132 401 025 82 133 401 024 77			CARBON CARBON	82K J/		1	R209	401 012 5708	CARBON	1K JA 1/4W	1
133 401 024 77			CARBON	39K J/		1	R210	401 027 0309	CARBON	47K JA 1/6W	1
			CARBON	22K J/		1	R211	401 024 7707	CARBON	100K JA 1/6W	1
			CARBON	100K JA 47K JA		1	R212	401 027 0309	CARBON	47K JA 1/6W	1
135 401 012 41	124107	1 012 4107	CARBON	100 JA		1	R213 R214	401 024 7004 401 026 6609	CARBON	1K JA 1/6W	1
136 401 016 11			CARBON		1/4W	i	R214	401 026 6609	CARBON	390 JA 1/6W	1
137 401 026 43			CARBON	3.3K JA		1	R216	401 019 1000	CARBON CARBON	2.2K JA 1/4W 390 JA 1/4W	1

Ref. No.	Part No.	Descrip	tion			Q′ty
R217	401 027 5205	CARBON	680	JA	1/6W	1
R218	401 012 8105	CARBON	100K	JA	1/4W	1
R219	401 012 8105	CARBON	100K	JΑ	1/4W	1
R220	401 012 8105	CARBON	100K	JA	1/4W	1
R221	401 012 8105	CARBON			1/4W	1
R222	401 024 7400	CARBON	10K	JΑ	1/6W	1
R223	401 024 8001	CARBON	1M	JA	1/6W	1
R224	401 024 7707	CARBON	100K	JA	1/6W	1
R225	401 024 7707	CARBON	100K	JA	1/6W	1
SWITCH	P.C.B. ASSY					
70	620 187 3443	Switch P.C.B	. Assv			1
	620 187 9148	Jumper	•			1
SW101	620 015 1917	Keyboard Sw	itch 6 mm			1
SW102	620 015 1917	Keyboard Sw	ritch 6 mm			1
SW103	620 015 1917	Keyboard Sw				1
SW104	620 015 1917	Keyboard Sw	ritch 6 mm			1
SW105	620 015 1917	Keyboard Sw	ritch 6 mm			1
SW106	620 015 1917	Keyboard Sw				1
SW107	620 015 1917	Keyboard Sw	itch 6 mm			1
SW108	620 015 1917	Keyboard Sw				1
SW109	620 015 1917	Keyboard Sw				1
SW110	620 015 1917	Keyboard Sw				1
SW111	620 015 1917	Keyboard Sw				1
SW112	620 015 1917	Keyboard Sw	ritch 6 mm			1
	.C.B. ASSY					
71	620 187 3450	Lamp P.C.B.	Assy			1
	620 030 8144	Lamp				2
	620 052 0171	Spacer				2
MECHA	P.C.B. ASSY					
142	620 187 3344	Mecha P.C.B.				1
CA851	620 187 8998	Connector 9P	Assy			1
P851	620 004 6800	Semi Fixed (E				1
R854	620 004 5339	LT Resistor 4	70			1
SW851	620 016 2159	Leaf Switch				1
Q851	405 019 2708	TR 2SC536-F-	NP-AA			1
or	405 019 3804	TR 2SC536-G-	-NP-AA			1
C851	403 072 2703	CERAMIC	0.022U	Z	50V	1
R851	401 025 7409	CARBON			1/6W	1
R852	401 026 0607	CARBON		-	1/6W	1
R853	401 025 8208	CARBON	22K	JA	1/6W	1

NOTES:

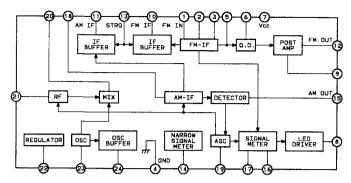
- Parts order must contain Model Number, Part Number and De-
- Ordering quantity of screws and resistors must be multiple of 10

PRODUCT SAFETY NOTICE

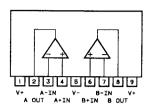
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol \triangle in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with \triangle , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

IC BLOCK DIAGRAM

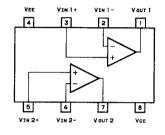
LA1266 BLOCK DIAGRAM



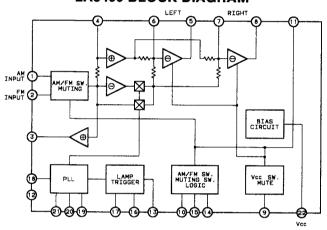
LA6462S BLOCK DIAGRAM



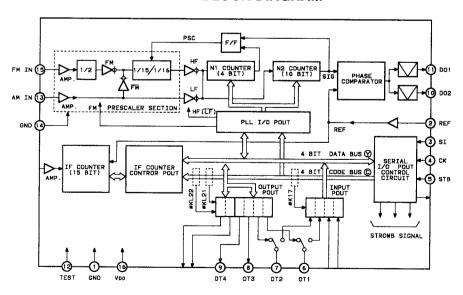
LA6458DS BLOCK DIAGRAM



LA3400 BLOCK DIAGRAM

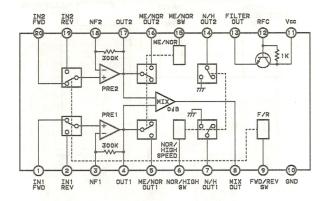


TC9171P BLOCK DIAGRAM

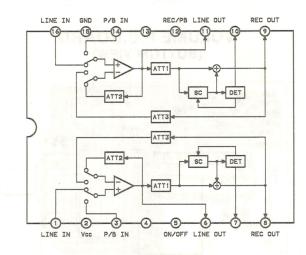


IC BLOCK DIAGRAM (Continued)

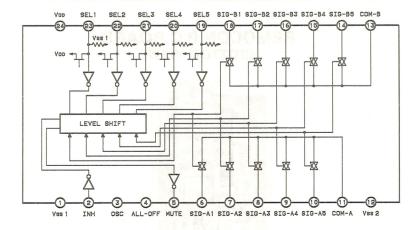
LA3246 BLOCK DIAGRAM



CXA1101P BLOCK DIAGRAM

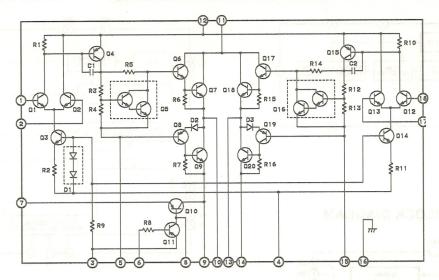


TC9152P BLOCK DIAGRAM

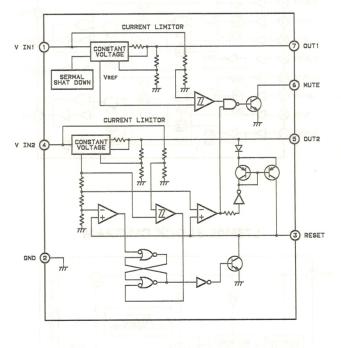


IC BLOCK DIAGRAM (Continued)

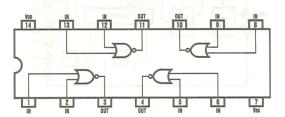
STK4152MK2 BLOCK DIAGRAM



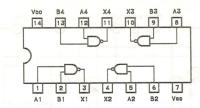
LA5667 BLOCK DIAGRAM



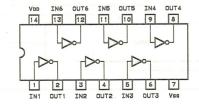
LC4001B BLOCK DIAGRAM



LC4011B BLOCK DIAGRAM

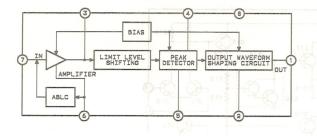


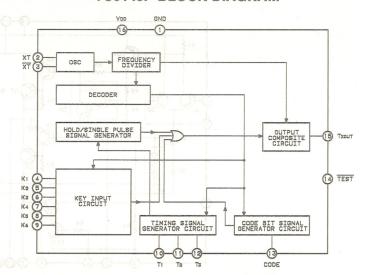
LC4069UB BLOCK DIAGRAM



(beunitree) IC BLOCK DIAGRAM (Continued)

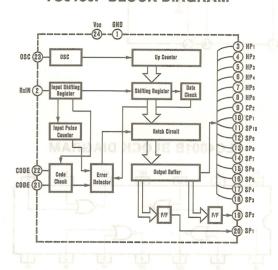
UPC1473HA BLOCK DIAGRAM POAIG MOOJE SAMSELANTC9148P BLOCK DIAGRAM

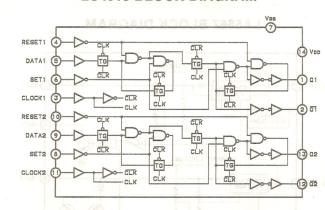




TC9150P BLOCK DIAGRAM

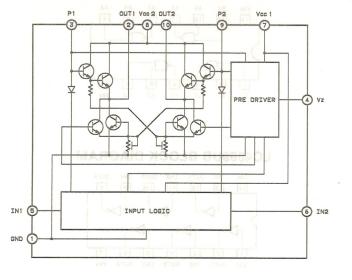
LC4913 BLOCK DIAGRAM

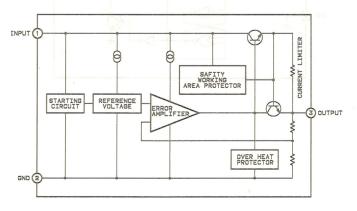




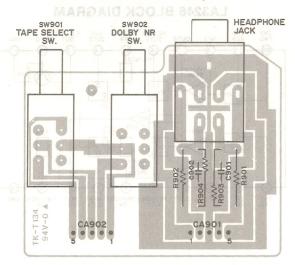
LB1641 BLOCK DIAGRAM

L78M05 BLOCK DIAGRAM

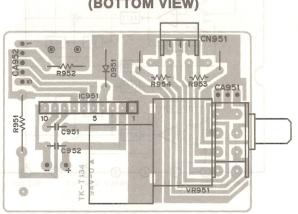




(bearing HEAD PHONE P.C.BOARD (BOTTOM VIEW)

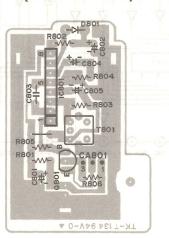


VOLUME P.C.BOARD (BOTTOM VIEW)

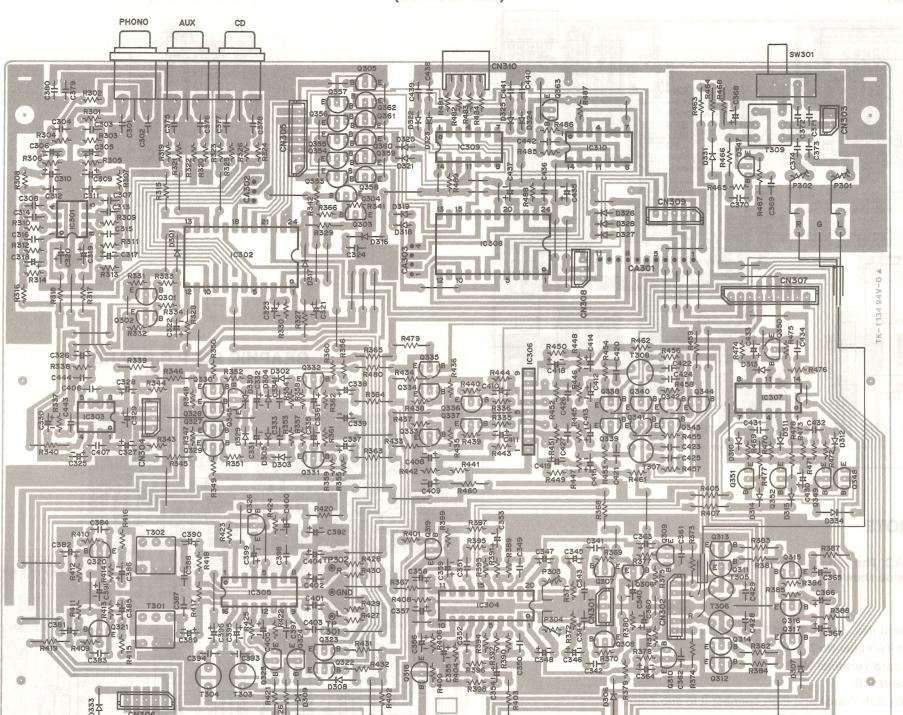


			IC PI	N NUMB	ERS DO	VOLT/	GES				
SYMBOL No.	DEVICE	_1_	2	3	4	5	6	. 7	8	9	10
IC951	LB1641	OV	0.5V	0.7V	0.3V	OV	OV	11.9V	11.9V	0.7V	0.5V

REMOCON P.C.BOARD (BOTTOM VIEW)



MAIN PRINTED CIRCUIT BOARD (BOTTOM VIEW)



NOTES:
The IC305 (Dolby IC CXA1101P) on the Main P.C.B. Assy of TAC-M82 is changed to HA12136 from the lot number of 4,001. With this IC change, the Main P.C.B. Assy is changed as follows.

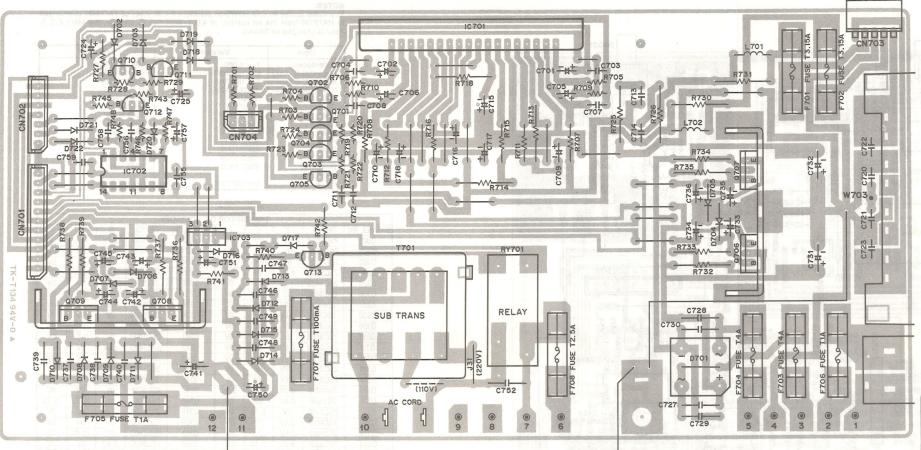
Item	Version 1	Version 2
Differences	1 ~ 4,000	4,001 and after
Main P.C.B. Assy	620 187 3290	620 192 4589
Main P.C.Board	620 187 2941	620 192 4367
IC305 (Dolby IC)	IC CXA1101P	IC HA12136
C397, 398	0.68uF/50	0.22µF/50
C399	470uF/10	1µF/50
R363, 364	6.8kΩ 1/4W	68kΩ 1/4W
R421	10kΩ 1/4W	22kΩ 1/4W
R423	10kΩ 1/6W	22kΩ 1/6W
R425	43kΩ 1/6W	18kΩ 1/6W
R426	22kΩ 1/4W	Deleted
R435, 436	18kΩ 1/6W	4.7kΩ 1/6W
R439, 440	39kΩ 1/6W	12kΩ 1/6W
leadphone		The second second
P.C.B. Assy	620 187 3351	620 192 4602

Real Contraction	30				DC VOLTAGE			.40	1
SYMBOL No.	DEVICE	В	C	E	SYMBOL No.	DEVICE	В	C	E
Q301	2SC2878	OV	OV	OV	Q332	2SC536	2.2V	7.3V	1.6V
Q302	2SC2878	OV	OV	OV	Q333	2SD1012	0.6V	OV	0V
Q303	2SC3400	OV	14.4V	OV	Q334	2SD1012	0.6V	0V	0V
Q304	2SC3400	4.7V	OV	OV	Q335	2SC3400	OV	3.6V	0V
Q305	2SC3400	4.7V	OV	OV	Q336	2SC536	0.6V	OV	0V
Q306	2SC3400	OV	4.9V	OV	Q337	2SC536	0.6V	0.2V	OV
Q307	2SC536	0.6V	OV	OV	Q338	2SC3400	OV	OV	OV
Q308	2SC536	0.6V	OV	OV	Q339	2SC3400	0V	OV	OV
Q309	2SC3708	OV	OV	OV	Q340	2SC3400	OV	0.1V	OV
Q310	2SC3708	OV	OV	OV	Q341	2SC3400	OV	0.2V	OV
Q311	2SC3708	0.6V	OV	OV	Q342	2SC3400	8.6V	OV	OV
Q312	2SC3708	0.7V	OV	OV	Q343	2SC3400	8.4V	OV	OV
Q313	2SC3708	0.7V	OV	OV	Q344	2SC3400	0V	8.5V	OV
Q314	2SC3708	0.6V	OV	OV	Q345	2SC536	0.6V	0.4V	OV
Q315	2SA1016	8.7V	9.4V	9.5V	Q347	2SC3708	OV	OV	0V
Q316	2S C5 36	0.6V	OV	OV	Q348	2SA1346	OV	13.2V	13.3\
Q317	2SC3400	OV	0.7V	OV	Q349	2SC3400	12.6V	OV	OV
Q318	2SD1012	0.6V	OV	OV	Q350	2SC3400	OV	OV	OV
Q319	2SD1012	0.6V	OV	OV	Q351	2SC3400	0V	10.4V	OV
Q320	2SC3331	9.0V	11.8V	OV	Q352	2SC3400	3.4V	OV	OV
Q321	2SC3331	9.0V	11.8V	8.4V	Q353	2SA1346	15.0V	OV	15.1\
Q322	2SD1012	0.6V	OV	OV	Q354	2SA1346	15.0V	OV	15.1\
Q323	2SD1012	0.6V	OV	OV	Q355	2SA1346	15.0V	OV	15.1\
Q324	2SC3400	OV	OV	OV	Q356	2SA1346	15.0V	OV	15.1\
Q325	2SC536	OV	6.3V	OV	Q357	2SA1346	15.0V	13.6V	15.1\
Q326	2SC3400	OV	6.2V	OV	Q358	2SC3400	OV	15.0V	0V
Q327	2SC536	0.3V	OV	OV	Q359	2SC3400	0V	15.0V	0V
Q328	2SC536	0.3V	OV	OV	Q360	2SC3400	OV	15.1V	OV
Q329	2SC536	0.2V	12.9V	0.3V	Q361	2SC3400	OV	15.0V	OV
Q330	2S C536	OV	12.9V	0.1V	Q362	2SC3400	OV	15.0V	OV
Q331	2SC536	2.3V	7.2V	1.7V	0363	2SC3400	4.8V	OV	OV

								IC PI	N NUME	BERS D	C VOLT/	AGES									
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC301	LA6458	0V	0V	0V	-15.1V	0V	0V	0V	14.8V												
IC302	TC9152P	0V	14.4V	OV	OV	OV	OV	OV	OV	OV	OV	0V	-15.9V	OV	OV	0.1V	OV	OV	0V	13.5V	OV
		21	22	23	24						TTT	IVOO I	MA IDEA	NO INC	701001			13736	o#4_100	14V/5	
		0V	OV	OV	14.4V			()0	5 1 V/2	F 1/0	200	2000	2020	TVa	5 175	03 140	1 3	2000	Proper		
1C303	LA6458	0V	0V	OV	-15.1V	OV	0V	OV	14.9V	DF 1/0	9 00	1000	0000	1 00	-	01 1/0		5000	0/10/		
IC304	LA3246	@V	0V	0.5V	5.2V	5.2V	0V	0.5V	5.1V	7.3V	0V	12.0V	11.9V	11.2V	0.4V	7.2V	4.9V	5.0V	0.5V	OV	OV
IC305	CXA1101P	6.4V	12.6V	6.4V	6.4V	6.2V	6.6V	0.3V	6.5V	6.5V	0.4V	6.6V	6.3V	1.2V	6.4V	OV	6.4V	3000	3.0.00		

VU VU	V6.1- V	.Pc-	VO V	1775	34,4	VU V	APE- VI	IC PI	N NUME	BERS DO	VOLT/	GES	VO V	5.0- 1	120-13	STKATO					
SYMBOL No.	DEVICE	1 1	2	3	4	5	6	7	8	9	10	V 11	12	13	14	15	16	17	18	19	20
IC306	LA6462S	12.7V	7.0V	7.0V	6.8V	0V	6.8V	6.9V	6.9V	12.7V			18.6	VO	W. F. T.	COMBIL	1 80	011			
IC307	LC4001B	OV	0V	13.2V	13.1V	OV	OV	OV	12.7V	12.7V	0V	13.2V	0.2V	0.1V	13.2V		-				1
IC308	TC9150P	OV	0V	OV	0V	OV	0V	OV	OV	OV	OV	OV	OV	0V	0V	0V	0V	OV.	0V	0V	OV
	100 100	21	22	23	24		0.36	0 80 1	101	1601-020	30	0	1.775	810	Vin	PEO MICO	1.007 30	CO			
	1/0 1/	0.6V	OV	2.4V	4.9V	1 1/4	32- 14	00 V	51	101000	500	0	Ur)	NO.	100	Edution	00	-/3			
IC309	LC4069U	OV	4.9V	OV	3.5V	OV	4.9V	OV	OV	4.9V	4.9V	OV	OV	4.9V	4.9V	0630.00		00			
IC310	LC4011B	4.4V	OV	4.9V	OV	4.9V	4.9V	OV	OV	OV	4.8V	OV	4.8V	4.8V	4.9V	000000	100	130			

POWER PRINTED CIRCUIT BOARD (BOTTOM VIEW)



IMPORTANT NOTE

The Unit has been Factory-adjusted for operation on 220V AC. The voltage can be changed for operation on 110V AC by making the following changes on the Unit inside shown.

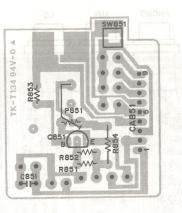
- 1. Remove the AC plug from the wall outlet.
- 2. Remove the screws securing the cover.
- 3. Disconnect the Power Trans lead from Wire Wrap Terminal (No. 7, 8, 9, 10) of the Power P.C.Board.
- 4. Connect the Gray and Orange leads to Power P.C.Board Terminal No.7.
- 5. Connect the Yellow and Black leads to the Power P.C.Board Terminal No.9.
- 6. Connect the Violet lead to the Power P.C.Board Terminal No.10.
- 7. Disconnect Jamper lead J31 from Power P.C.Board (T701 Sub Trans) and then connect it to sub Trans 110V Terminal.

The Unit is now ready 110V operation. DO NOT attempt to operate the Unit on 220V.

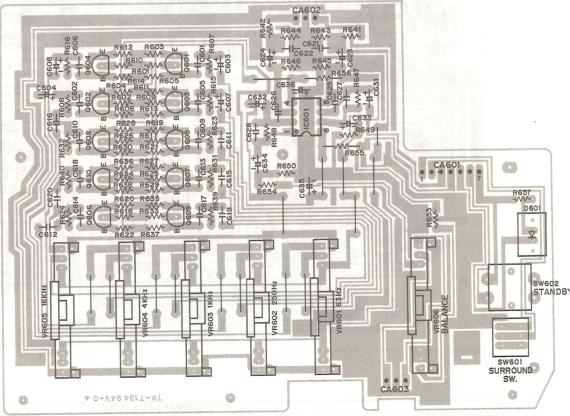
	IC PIN NUMBERS DC VOLTAGES																		
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC701	STK4152	-0.2V	-0.2V	0V	-31.3V	-1.3V	OV	-33.3V	-34.0V	-34.5V	OV	34.4V	32.7V	OV	-34.4V	-1.3V	0V	0V	-0.1V
IC702	LC4913	4.7V	OV	OV	OV	OV	OV	OV	OV	0V	0V	OV	OV	OV	OV	ani/ad	Late in	16.0721	
IC703	L78M05	9.7V	OV	4.9V			e or	1657	10 5 7 7	B 3	1/11	00	ME TO		N 01 3	obada I	To TVIE	07	

120	772	100	VIO	167	TRA	NSISTOR	DC VOL	TAGES						
SYMBOL No.	DEVICE	В	C .	Е	SYMBOL No.	DEVICE	В	С	Е	SYMBOL No.	DEVICE	В	C	Е
Q701	2SD1012	0V	0V	0V	Q706	2SD1913	16.4V	31.3V	15.6V	Q711	2SC536	0V	12.9V	OV
Q702	2SD1012	OV	OV	OV	Q707	2SB1274	-16.5V	-32.1V	-15.9V	Q712	2SC536	OV	3.6V	OV
Q703	2SC536	0.7V	OV	OV	Q708	2SA1913	13.9V	20.7V	13.3V	Q713	2SD1012	0.6V	OV	OV
Q704	2SC536	0.7V	OV	OV	Q709	2SA1913	12.4V	20.6V	12.1V	122 L / Y	222	السياسية الأما		LVIVI
Q705	2SA1346	OV	13.3V	13.3V	Q710	2SA608	12.8V	0V	13.0V					

MECHA P.C.BOARD (BOTTOM VIEW)



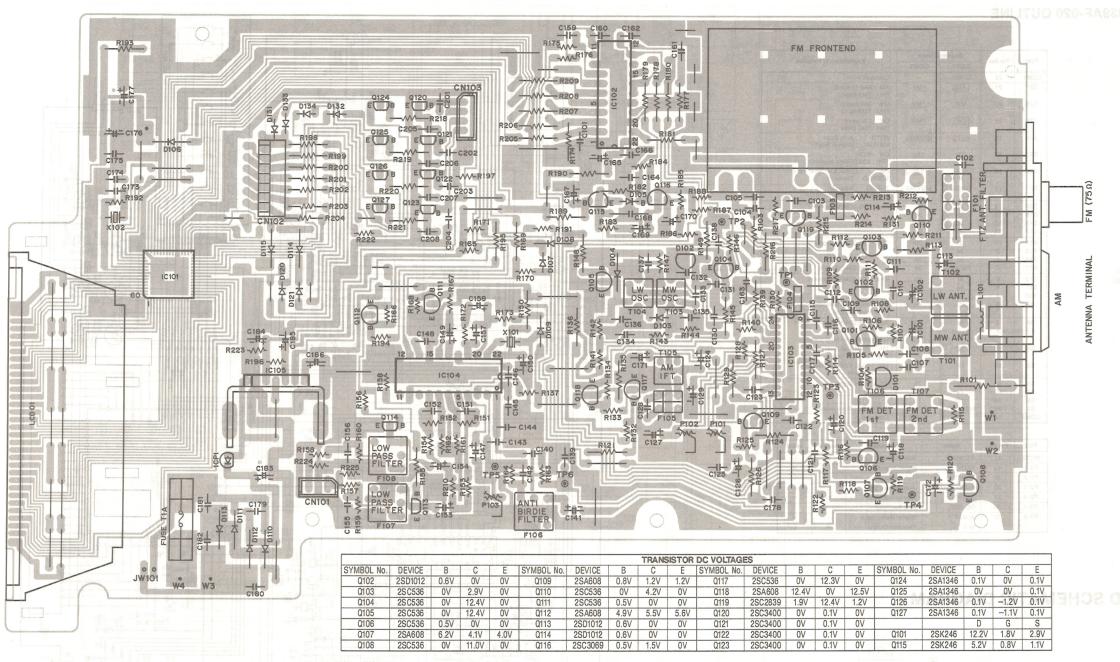
GRAPHIC EQ. P.C.BOARD (BOTTOM VIEW)

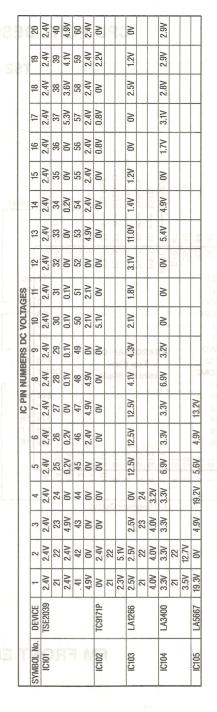


TRANSISTOR DC VOLTAGES												
SYMBOL No.	DEVICE	В	С	E	SYMBOL No.	DEVICE	В	С	E			
Q601	2SC536	-1.0V	13.1V	-1.6V	Q606	2SC536	-0.2V	13.1V	-0.8V			
Q602	2SC536	-1.0V	13.1V	-1.6V	Q607	2SC536	-0.2V	13.1V	-0.8V			
Q603	2S C 536	-0.7V	13.1V	-1.3V	Q608	2SC536	-0.2V	13.1V	-0.8V			
Q604	2S C536	-0.7V	13.1V	-1.3V	Q609	2SC536	-0.1V	13.1V	-0.7V			
Q605	2S C536	-0.2V	13.1V	-0.8V	Q610	2SC536	-0.1V	13.1V	-0.7V			

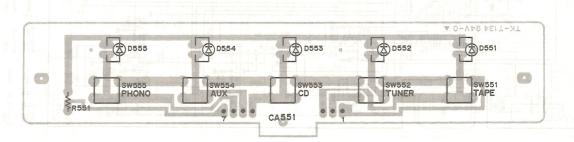
40 200	756	IC PI	N NUME	BERS D	C VOLTA	GES			
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8
IC601	LA6458D	OV	OV	OV	-13.9V	OV	0V	OV	13.7V

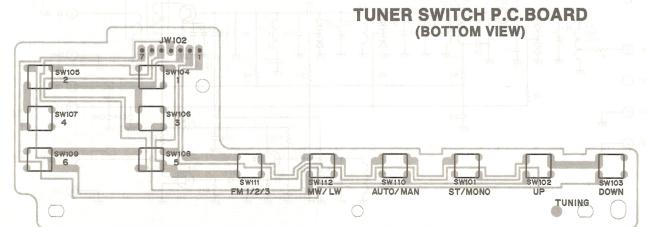
SIGNATIONS (TSE 2039AF-020) (NEW) SIGNA TIUDAID CIRCUATIONS (TUBER Section) (Wall Mark Colors Section)





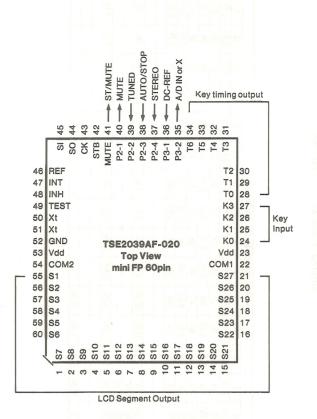
FUNCTION P.C.BOARD (BOTTOM VIEW)





CPU PORT DESIGNATIONS (TSE 2039AF-020)

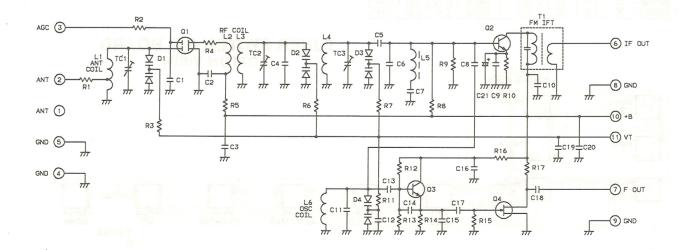
TSE 2039AF-020 OUTLINE



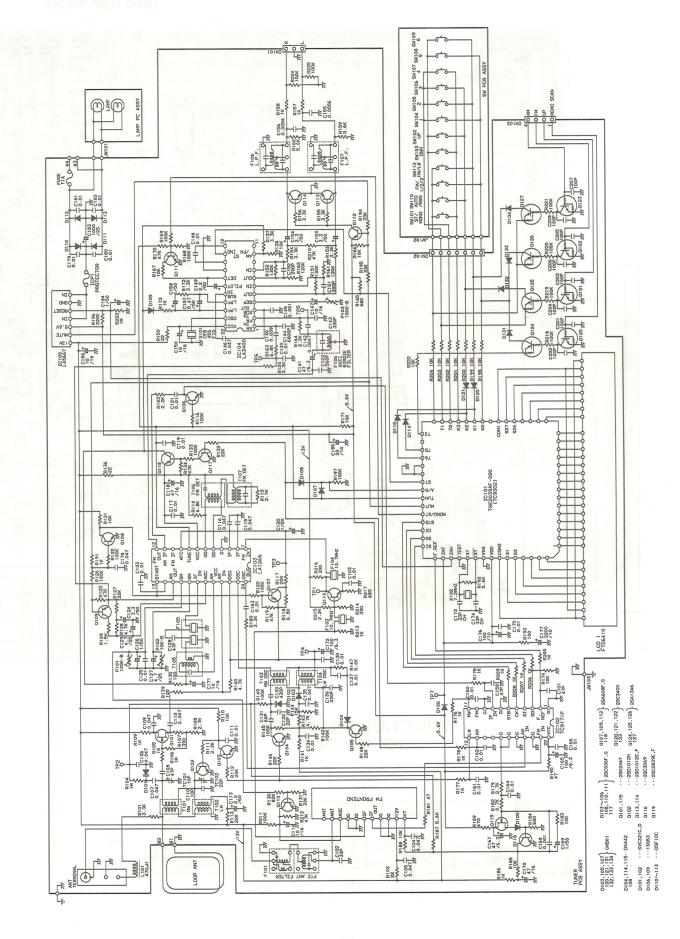
Port	Pin No.	Segme	nt Name	
Port	Pin No.	COM1	COM2	Explanation of Function
OM1	22	COM1	17-12-	Common 1
S27	21	AM	FM1	AM : MW (2 band) FM1 : FM1 band
S26	20	MW	FM2	MW: MW band FM2: FM2 band
S25	19	LW	FM3	LW : LW band FM3 : FM3 band
S24	18	AUTO	MANUAL	AUTO : Auto Scan MANUAL : Manual Scan
S23	17	СН	1bc	CH : 6 CH 1bc : 108.00MHz segment
S22	16	[5]	STEREO	[5] : point 5 on level meter STEREO : Stereo in
S21	15	TUNED	MUTING	TUNED : Input On MUTING : Stereo/Mute On
S20	14	2f	2b	2f-a:108.00MHz segment
S19	13	2e	2g	
S18	12	2d	2c	
S17	11	_	2a	
S16	10	3f	3b	3f-a:108.00MHz segment
S15	9	3e	3g	
S14	8	3d	3c	
S13	7	FM dot	3a	: 108.00MHz mark
S12	6	4f	4b	4f-a: 108.00MHz segment
S11	5	40	4a	La contrata de contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata del contrata de la contrata de la contrata del co
S10	4	4d	4c	
S9	3	[1]	4a	[1] : point 1 on level meter (normally ON)
S8	2	5g	5be	5g-f: 108.00MHz segment, 0/5
S7	1	5acdf	[2]	[2] : point 2 on level meter
S6	60	[3]	kHz	[3] : point 3 on level meter kHz : MW/LW unit
S5	59	[4]	MHz	[4] : point 4 on level meter MHz : FM unit
S4	58	7f	7b	75-a: 6 CH segment
S3	57	7e	7g	
S2	56	7d	7c	
S1	55	MEMORY	7a	MEMORY : Store mode
COM2	54	77 ± 45 0 10 1	COM2	Common 2

Port	Pin No.	Name	Assignment	Active	Initial
MUTE	41	ST/MUTE	Stereo/Mute Output	L	L
P2-1	40	MUTE	Mute Output	L	Н
P2-2	39	TUNED	Tuned Input	L	-
P2-3	38	AUTO/STOP	Auto/Stop Input	L	0 -
P2-4	37	STEREO	Stereo Ind. Input	L	-
P3-1	36	DC-REF	A/D Ref Input	- 7-7	-
P3-2	35	A/D IN	Signal Meter Input	-	-
		or X	Function Output	н	L
		or X	and the second s	н	

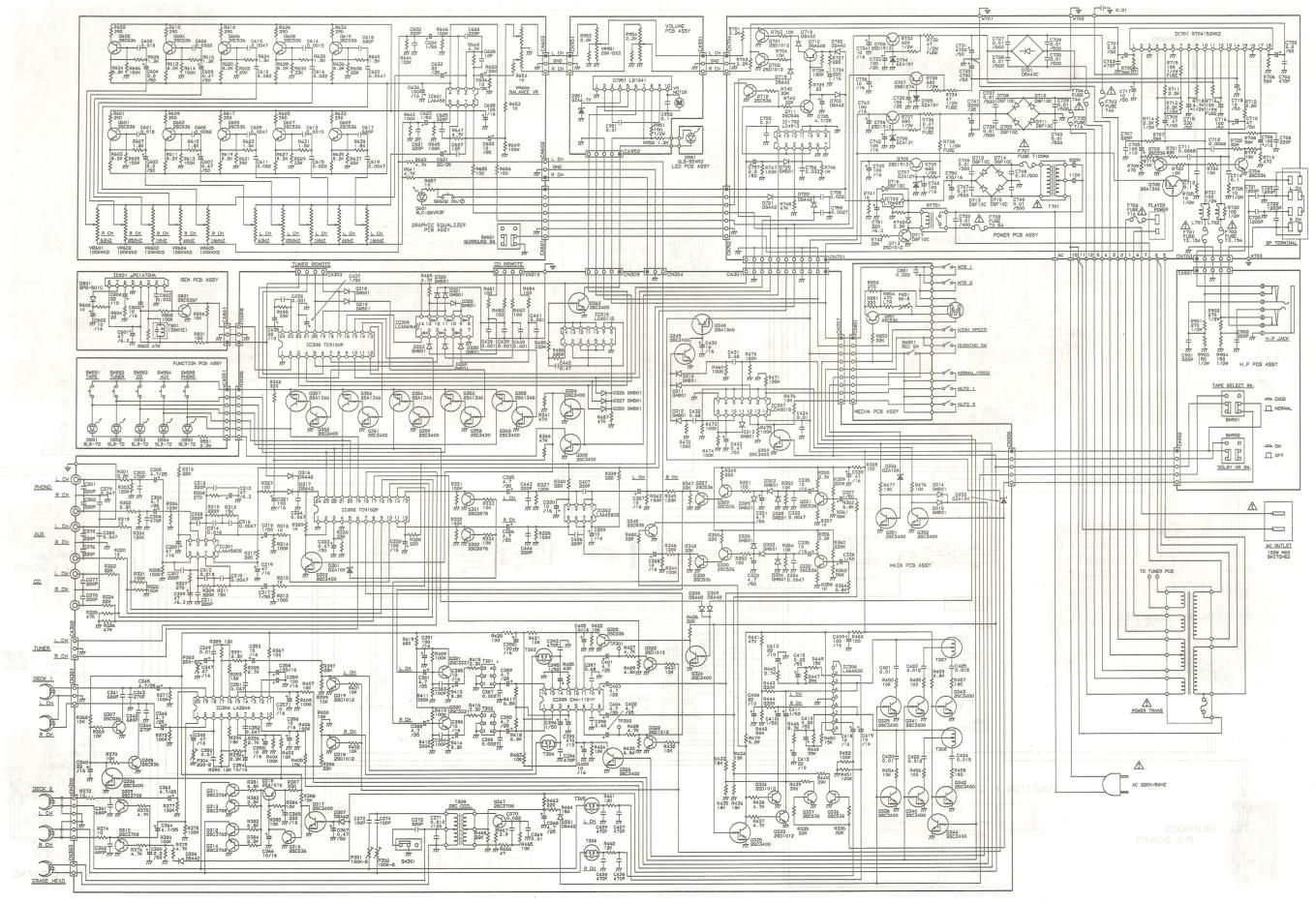
FM FRONT END SCHEMATIC DIAGRAM



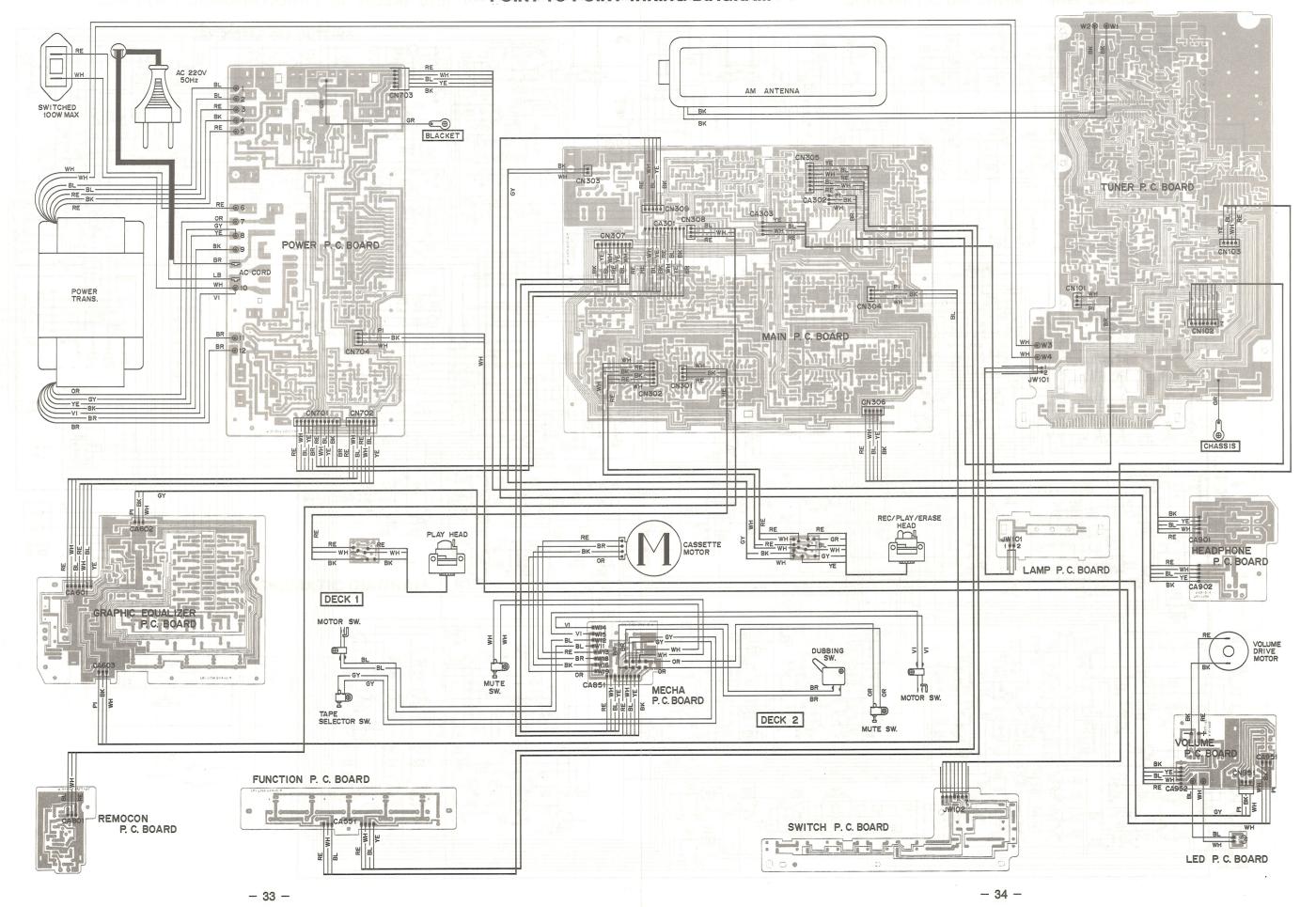
SCHEMATIC DIAGRAM (Tuner Section)



SCHEMATIC DIAGRAM (Main unit Section)



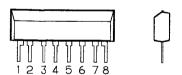
POINT TO POINT WIRING DIAGRAM



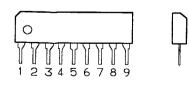
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA1016K 2SA608 2SC2878 2SC3069 2SC3331 2SC3708 2SC536 2SC930	E C B	ECB	2SA1346 2SC2839 2SC3400 2SD1012	ECB	E C B
2SB1274 2SD1913	O BCE	BCE	2SC2999	ECB	ECB
2SK241	DSG	DSG	2SK246 2SK246	SGD	S G D
2SA1179 2SD1048		B E			
		TERMINA	LNAME		
		B → BASE C → COLLECTOR E → EMITTER	S → SOURCE G → GATE D → DRAIN		

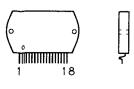
UPC1473HA FRONT/SIDE VIEWS



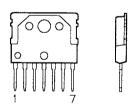
LA6462S FRONT/SIDE VIEWS



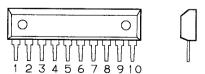
STK4152MK2 FRONT/SIDE VIEWS



LA5667 FRONT/SIDE VIEWS



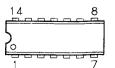
LB1641 FRONT/SIDE VIEWS



LA6458DS TOP VIEW



LC4001B TOP VIEW LC4011B TOP VIEW LC4069UB TOP VIEW LC4913 TOP VIEW

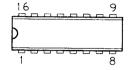


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

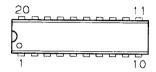
TC9148P TOP VIEW



CXA1101P TOP VIEW



LA3246 TOP VIEW



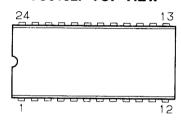
LA3400 TOP VIEW TC9171P TOP VIEW



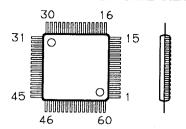
LA1266 TOP VIEW



TC9150P TOP VIEW TC9152P TOP VIEW



TSE2039AF-020 TOP/SIDE VIEWS



L78M05 FRONT/SIDE VIEW

